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EN

CT

Digital Media Receiver

iDA-X303

MP3 Plays Windows Media™ AAC IMPRINT

Made for iPod Works with iPhone USB PLAYBACK

- OWNER'S MANUAL
  Please read before using this equipment.
- 用戶手冊
  請在使用本設備之前先閱讀用戶手冊。

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iPod
5th generation
(video)
30GB

iPod
5th generation
(video)
60GB 80GB

iPod nano
1st generation
1GB 2GB 4GB

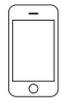
iPod nano
2nd generation
(aluminum)
2GB 4GB 8GB

iPod nano
3rd generation
(video)
4GB 8GB

iPod classic
80GB 160GB

iPod touch
1st generation
8GB 16GB 32GB

iPhone
4GB 8GB 16GB



iPhone 3G
8GB 16GB

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Operating Instructions

WARNING

⚠WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.

Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

KEEP SMALL OBJECTS SUCH AS BOLTS OR SCREWS OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

⚠CAUTION

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Centre for repairing.

⚠PRECAUTIONS

Product Cleaning

Use a soft dry cloth for periodic cleaning of the product. For more severe stains, please dampen the cloth with water only. Anything else has the chance of dissolving the paint or damaging the plastic.

Temperature

Be sure the temperature inside the vehicle is between +60°C (+140°F) and –10°C (+14°F) before turning your unit on.

Maintenance

If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

Installation Location

Make sure this unit will not be installed in a location subjected to:

- Direct sun and heat
- High humidity and water
- Excessive dust
- Excessive vibrations

Protecting the USB connector

- Only USB flash memory devices, iPhone/iPod models or Portable audio players can be connected to the USB connector on this unit. Correct performance using other USB products cannot be guaranteed. A USB hub is not supported.
- If the USB connector is used, be sure to connect it to the unit by using a USB extension cable (supplied). A USB hub is not supported.
- Depending on the type of memory connected, it may not be functional or not all of its functions are supported.
- The audio file format that can be played back on the unit is MP3/WMA/AAC.
- Artist/song name, etc., can be displayed, however characters may not be correctly displayed.

⚠CAUTION

Alpine accepts no responsibility for lost data, etc., even if data, etc., is lost while using this product.

On Handling USB Memory

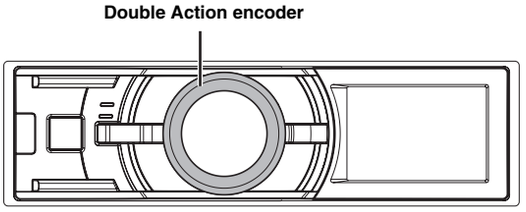
- To prevent malfunction or damage, note the following points.
  Read the USB memory Owner's Manual thoroughly.
  Do not touch the terminals by hand or metal.
  Do not subject USB memory to excessive shock.
  Do not bend, drop, disassemble, modify or soak in the water.
- Avoid usage or storage in the following locations:
  Anywhere in the car exposed to direct sunlight or high temperatures.
  Anywhere the possibility of high humidity or corrosive substances are present.
- Fix the USB memory in a location where driver operation will not be hindered.
- USB memory may not function correctly at high or low temperature.
- Use only certified USB memory. Note that even certified USB memory, may not function correctly depending on its type or state.
- USB memory function is not guaranteed. Use USB memory according to the terms of agreement.
- Depending on the settings of the USB memory type, memory state or encoding software, the unit may not play back or display properly.
- Files that are copy-protected (using some type of DRM, Digital Rights Management) cannot be played back on this unit. WMA format files with DRM or AAC format files that have been purchased from the iTunes Store are included in this restriction.
- USB memory may take time to start playback. If there is a particular file other than audio in the USB memory, it may take considerable time before the file is played back or searched.
- The unit can play back "mp3", "wma" or "m4a" file extensions.
- Do not add the above extensions to a file other than audio data. This non-audio data will not be recognized. The resulting playback may contain noise that can damage speakers and/or amplifiers.
- It is recommended to back up important data on a personal computer.
- Do not remove the USB device while playback is in progress. Change SOURCE to something other than USB, then remove the USB device to prevent possible damage to its memory.

On Handling Portable audio player

- The unit can control a Portable audio player with the USB interface. Playable audio file formats are MP3 and WMA.
- Portable audio player function is not guaranteed. Use Portable audio player according to the terms of agreement. Read the Portable audio player Owner's Manual thoroughly.
- Avoid usage or storage in the following locations:
  Anywhere in the car exposed to direct sunlight or high temperatures.
  Anywhere the possibility of high humidity or corrosive substances are present.
- Fix the Portable audio player in a location where driver operation will not be hindered.
- Portable audio player may not function correctly at high or low temperature.
- Depending on the settings of the Portable audio player type, memory state or encoding software, the unit may not play back or display properly.
- If the Portable audio player has an MSC/MTP setting, set to MTP.
- A Portable audio player in which data is stored by USB Mass Storage may not be playable on the unit.
- Depending on the Portable audio player settings, USB Mass Storage may be supported. For setting, refer to the Owner's Manual of the player.
- The unit can play back MP3/WMA files synchronized by Windows Media Player (Ver. 7.1, 8, 9, 9.1, 9.2), and are then forwarded to the player. The "mp3" or "wma" extensions are playable.
- If data is not synchronized by Windows Media Player and is forwarded in another way, the unit may not be able to correctly play back the files.
- WMDRM10 is supported by the unit.
- A file that is copy-protected (copyright protection) cannot be played back.
- It is recommended to back up important data on a personal computer.
- Do not remove the USB device while playback is in progress. Change SOURCE to something other than USB, then remove the USB device to prevent possible damage to its memory.

- *Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.*
- *iPod is a trademark of Apple Inc., registered in the U.S. and other countries.*
- *iPhone is a trademark of Apple Inc.*
- *"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.*
- *"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.*
- *Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.*
- *The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Alpine Electronics, Inc. is under license. Other trademarks and trade names are those of their respective owners.*
- *"MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson."*
- ***"Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generation) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit http://www.mp3licensing.com"***
- ***Audyssey MultEQ XT is a registered trademark of Audyssey laboratories Inc.***

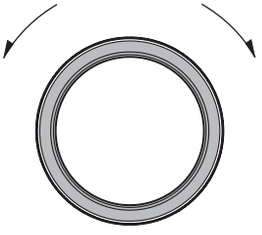
Double Action Encoder Operation



There are 2 ways to operate the Double Action encoder.

Normal operation

Turn the Double Action encoder to the left or right.

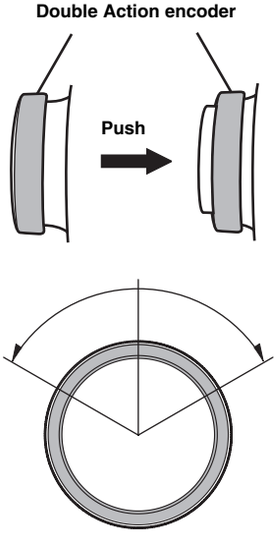


To adjust volume and scroll through a list of items.

Alternate operation

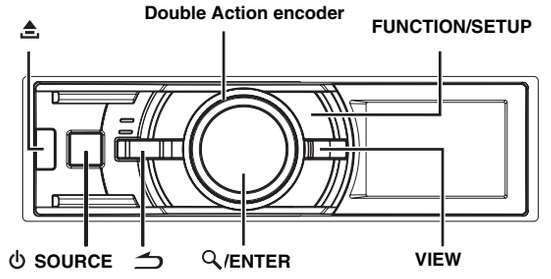
Turn the Double Action encoder to the left or right.

When you release the Double Action encoder, the display changes.



Depending on the situation, you can change an item or display. If you press and turn the **Double Action encoder** to the left or right, you can change items/displays continuously.

Getting Started



Accessory List

- **Digital Media Receiver.....1**
- **Power cable.....1**
- **USB cable.....1**
- **Interface cable for iPod 1**
- **Mounting sleeve.....1**
- **Carrying case.....1**
- **Bracket key.....2**
- **Screw (M5x8).....4**
- **Owner's Manual ..... 1 set**

Turning Power On and Off

Press ⏻ SOURCE to turn on the unit.

- *The unit can be turned on by pressing any other button except ⏏ (Release), **Double Action encoder** and **VIEW**. The unit is also automatically turned on if a USB memory/iPhone/iPod is connected.*

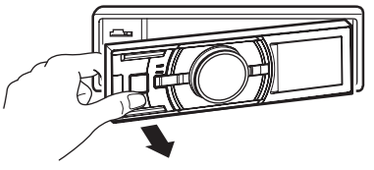
Press and hold ⏻ SOURCE for at least 2 seconds to turn off the unit.

- *The first time power is turned on, the volume will start from level 12.*

Detaching and Attaching the Front Panel

Detaching

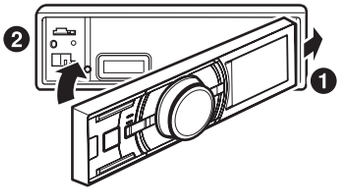
1. **Turn off the unit power.**
2. **Press ⏏ (Release) at the middle left side until the front panel pops out.**
3. **Grasp the left side of the front panel and pull it out.**



- *The front panel may become hot in normal usage (especially the connector terminals on the back of the front panel). This is not a malfunction.*
- *To protect the front panel, place it in the supplied carrying case.*

Attaching

1. **Insert the right side of the front panel into the main unit. Align the groove on the front panel with the projections on the main unit.**
2. **Push the left side of the front panel until it locks firmly into the main unit.**



- *Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the front panel and the main unit.*
- *Attach the front panel carefully. Hold the panel by its sides to avoid pushing any buttons by mistake.*

Initial System Start-Up

Be sure to press the RESET switch when using the unit for the first time, after changing the car battery, etc.

1. **Turn off the unit power.**
2. **Press ⏏ (Release) to remove the front panel.**
3. **Press RESET with a ballpoint pen or similar pointed object.**

Adjusting Volume

Turn the Double Action encoder until the desired sound is obtained.

Setting the Calendar

1 **Press and hold FUNCTION/SETUP for at least 2 seconds to activate the SETUP selection mode.**

2 **Turn the Double Action encoder to select the GENERAL mode, and then press /ENTER.**

BT*1 ↔ AUDIO*2 ↔ GENERAL ↔ DISPLAY ↔ IPOD ↔ BT

*1 *Displayed only when INT MUTE is set to OFF, and the mode is set to other than BT AUDIO.*

*2 *Displayed only when an external audio processor is connected. For details, refer to the Owner's Manual of the external audio processor.*

3 **Turn the Double Action encoder to select CALENDAR ADJ, and then press /ENTER.**

4 **Turn the Double Action encoder to set year.**

5 **Press /ENTER.**

6 **Repeat steps 4 and 5 above to set month, day.**

7 **Press and hold for at least 2 seconds to return to normal mode.**

- *Pressing during the procedure will return to the previous mode.*
- *If no operation is performed for 60 seconds, the unit will return to normal mode automatically.*

Setting the Time

1 **Press and hold FUNCTION/SETUP for at least 2 seconds to activate the SETUP selection mode.**

2 **Turn the Double Action encoder to select the GENERAL mode, and then press /ENTER.**

BT*1 ↔ AUDIO*2 ↔ GENERAL ↔ DISPLAY ↔ IPOD ↔ BT

*1 *Displayed only when INT MUTE is set to OFF, and the mode is set to other than BT AUDIO.*

*2 *Displayed only when an external audio processor is connected. For details, refer to the Owner's Manual of the external audio processor.*

3 **Turn the Double Action encoder to select CLK ADJ, and then press /ENTER.**

4 **Turn the Double Action encoder to set hour.**

5 **Press /ENTER.**

6 **Repeat steps 4 and 5 above to set minutes.**

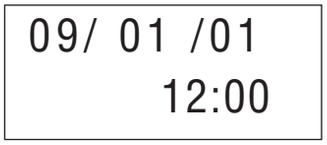
7 **Press and hold for at least 2 seconds to return to normal mode.**

- *Pressing during the procedure will return to the previous mode.*
- *If no operation is performed for 60 seconds, the unit will return to normal mode automatically.*

Displaying the Calendar/Time

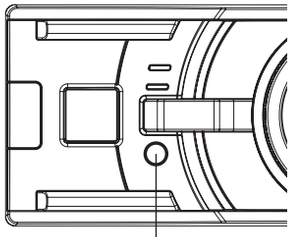
Press VIEW.

The calendar/time is displayed. Pressing VIEW again will return to normal mode.



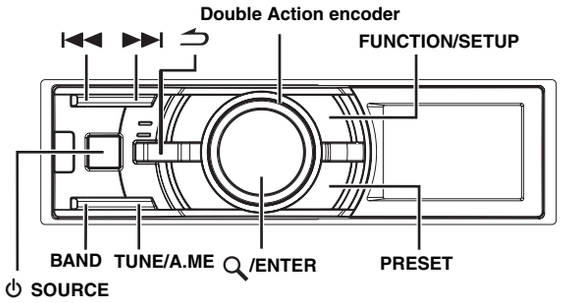
Controllable With Remote Control

Point the optional remote control transmitter at the remote control sensor.



Remote control sensor

Radio



Listening to Radio

1 **Press ⏻ SOURCE to select TUNER mode.**

2 **Press BAND repeatedly until the desired radio band is displayed.**

FM1 → FM2 → AM → FM1

3 **Press TUNE/A.ME to select the tuning mode.**

DX SEEK (Distance mode) → SEEK (Local mode) → (Blank) (Manual mode) → DX SEEK (Distance mode)

- *The initial mode is Distance mode.*

Distance mode:
Both strong and weak stations will be automatically tuned in (Automatic Seek Tuning).

Local mode:
Only strong stations will be automatically tuned in (Automatic Seek Tuning).

Manual mode:
The frequency is manually tuned in steps (Manual tuning).

4 **Press ⏮ or ⏭ to tune in the desired station.**
Holding down ⏮ or ⏭ will change the frequency continuously.

Presetting Stations Manually

1 **Select the radio band and tune in a desired radio station you wish to store in the preset memory.**

2 **Press PRESET.**
The Preset screen is displayed.

3 **Turn the Double Action encoder to select the preset number.**

4 **Press and hold /ENTER for at least 2 seconds.**
The selected station is stored.
The display shows the band, preset number and station frequency memorized.

- *A total of 18 stations can be stored in the preset memory (6 stations for each band; FM1, FM2 and AM).*
- *If you store a station in a preset memory which already has a station, the current station will be cleared and replaced with the new station.*

Presetting Stations Automatically

1 **Press BAND repeatedly until the desired radio band is displayed.**

2 **Press and hold TUNE/A.ME for at least 2 seconds.**
The tuner will automatically seek and store 6 strong stations in the selected band. They will be stored 1 to 6 in order of signal strength.
When the automatic memory has been completed, the tuner goes to the station stored in preset location No.1.

- *If no stations are stored, the tuner will return to the original station you were listening to before the auto memory procedure began.*

Tuning to Preset Stations

1 **Press BAND repeatedly until the desired band is displayed.**

2 **Press PRESET.**
The Preset screen is displayed.

3 **Turn the Double Action encoder to select a radio station.**

4 **Press /ENTER.**
The display shows the band, preset number and frequency of the station selected.

Frequency Search Function

You can search for a radio station by its frequency.

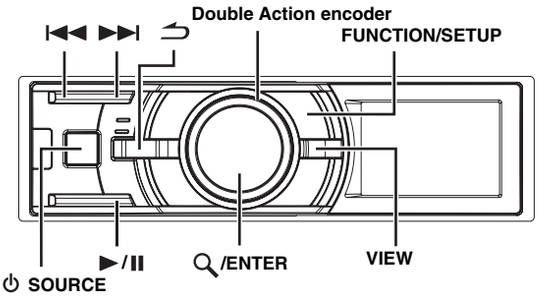
1 **Press /ENTER in Radio mode to activate Frequency search mode.**

2 **Turn the Double Action encoder to select the desired frequency.**

3 **Press /ENTER to receive the selected frequency.**

- *Press ⮌ in the search mode to cancel. Or, the search mode will be cancelled if no operation is performed for 10 seconds.*

iPhone/iPod (Optional)



An iPhone/iPod can be connected to this unit by using the Interface cable for iPod (supplied). When this unit is connected by using the cable, the controls on the iPod are not functional.

- *Internet and telephone functions of iTouch or iPhone, ect., can also be used when connecting to the unit. However, using these functions will stop or pause the playing songs, at this time do not operate the unit to avoid a malfunction.*
- *If you connect an iPhone to this unit, it can be used as an iPod. If you use iPhone as a hands-free phone, you need the optional Bluetooth INTERFACE (KCE-400BT).*

iPhone/iPod models usable with this unit

- The unit can be used with the following iPhone/iPod models.

  iPhone 3G (version 2.0)
  iPhone (version 1.1.4)
  iPod touch (version 1.0.4)
  iPod classic (version 1.1.1)
  iPod nano (3rd generation) (version 1.1)
  iPod nano (2nd generation) (version 1.1.3)
  iPod with video (version 1.2.3)
  iPod nano (1st generation) (version 1.3.1)

- For clarity in identifying your model of iPod, please see Apple's own document "Identifying iPod models" at http://support.apple.com/kb/HT1353
- This unit does not support video playback from iPhone/iPod, even using a video-compatible cable.
- If the unit is used with versions of iTunes earlier than 7.6, correct function and performance are not guaranteed.

Playback

1 Press SOURCE to switch to the USB IPOD mode.

2 Press ◀◀ or ▶▶ to select the desired song.

Return to the beginning of the current song:
Press ◀◀.

Fast backward through current song:
Press and hold ◀◀.

Advance to the beginning of the next song:
Press ▶▶.

Fast forward through current song:
Press and hold ▶▶.

3 To pause playback, press ▶/II .
Pressing ▶/II again will resume playback.

- *If a song is playing on the iPhone/iPod when it is connected to this unit, it will continue playing after the connection.*
- *An episode or audiobook may have several chapters, the chapter can be changed by pressing ◀◀ or ▶▶ .*

Searching for a desired Song/Title

An iPhone/iPod can contain hundreds of songs. By keeping these songs organised in playlists, this unit can use these to ease song searches.

Using the Playlist/Artist/Album/Podcast/Audiobook/Genre/Composer/Song search mode's individual hierarchy, you can narrow down your search as shown in the table below.

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
PLAYLISTS	SONG	—	—
ARTISTS*	ALBUM*	SONG	—
ALBUMS*	SONG	—	—
PODCASTS	EPISODE	—	—
AUDIOBOOKS	—	—	—
GENRES*	ARTIST*	ALBUM*	SONG
COMPOSERS*	ALBUM*	SONG	—
SONGS	—	—	—

- *You can select your preferred search mode. Refer to "iPod Search Mode Setting" (page 22).*

For example: Searching by Artist name
The following example explains how an ARTISTS search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

1 Press /ENTER to activate the Menu Select mode.

2 Turn the Double Action encoder to select the ARTISTS, and then press /ENTER.
The artist search mode is activated and artists names are displayed.

3 Turn the Double Action encoder to select the desired Artist, and then press /ENTER.
The album search mode is activated and albums names are displayed.

4 **Turn the Double Action encoder to select an album, and then press /ENTER.**
The song search mode is activated and songs names are displayed.

5 **Turn the Double Action encoder to select a song and press /ENTER.**
The selected song is played back.

- *While in the search mode, if you press and hold for at least 2 seconds the search mode is cancelled.*
- *In the search mode, pressing will return to the previous mode.*
- *When search is made during M.I.X. play, the M.I.X. play mode will be cancelled.*
- *"NO SONG" will be displayed if there are no songs in the selected playlist in the PLAYLISTS search mode.*
- *"NO PODCAST" will be displayed if there is no podcast data in the iPhone/iPod in the PODCASTS search mode.*
- *"NO A-BOOK" will be displayed if there is no audiobook data in the iPhone/iPod in AUDIOBOOKS search mode.*
- *If "iPod name" stored in the iPhone/iPod is selected in the desired playlist search mode and /ENTER is pressed, you can search for all songs in the iPhone/iPod. Also, if you press and hold /ENTER for at least 2 seconds, all songs in the iPhone/iPod are played back.*
- *The display "NO SUPPORT" is scrolled if text information is not compatible with this unit.*
- *After selecting [ALL] in the search mode with "*", press and hold /ENTER for at least 2 seconds to play back all songs in the iPhone/iPod or selected search mode.*
- *If percent skip function is activated in the search mode, a search can be made quickly by skipping to the specified location. For details, refer to "Percent Skip Function" on page 10.*
- *If Alphabet Skip Function is activated in the search mode, a search can be made quickly by Alphabet skip function to find the desired artist or song, etc. For details, refer to "Alphabet Skip Function"on page 10.*
- *In the search mode, you can scroll the page by pressing and turning the **Double Action encoder**.*
- *If no operation is performed for 60 seconds, the unit will return to normal mode automatically.*

Percent Skip Function

The unit is provided with a percent skip function for effective searching. When you use this function in the search mode, you can quickly search an artist or a song, etc.
If there are 100 songs in your iPhone/iPod, they are divided into 10 groups using percentages (shown below).

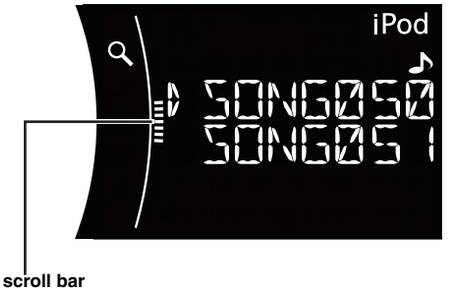
Number of song / %	All 100 songs							
	10th song	20th song	...	50th song	...	80th song	...	100th song
10 %	■							
20 %	■	■						
⋮								
50 %	■	■	■	■				
⋮								
80 %	■	■	■	■	■	■		
⋮								
100 %	■	■	■	■	■	■	■	■

* *You can select to show a percentage of the total stored songs, in 10% steps.*

1 **Press FUNCTION/SETUP repeatedly to choose the percent skip mode.**
Alphabet skip function → Percent skip function → Normal search mode → Alphabet skip function

2 **Press and turn the Double Action encoder.**
Each turn of the Double Action encoder to the right will jump 10%, 20% and 100% in ascending order.
Each turn of the Double Action encoder to the left will jump 100%, 90% and 10% in descending order.

Scroll bar display example (if 50% is shown)



scroll bar

Alphabet Skip Function

The initial skip function is skipped to the next number, symbol or letter such as from A to B, B to C.
You can skip in reverse order such as B to A by turning the **Double Action encoder** to the left.

1 **In the search mode, press FUNCTION/SETUP repeatedly to choose the alphabet skip mode.**
Alphabet skip function → Percent skip function → Normal search mode → Alphabet skip function

2 **Press and turn the Double Action encoder.**
A list is skipped to the next page or next number, symbol or letter.

- *If the **Double Action encoder** is pressed and turned to the left or right, the display continuously changes.*
- *The Alphabet Skip Function in the song search mode is available only when a song search is selected on the Menu select screen.*
- *Titles are listed alphabetically, and can be skipped every 200 titles. If there are fewer than 200 titles, titles beginning with the next alphabetical character are selected.*

Up/Down Function

If you select an album and press and hold 🔍/**ENTER** in the search mode, this album will be played back repeatedly. To go to the previous or next Album, use the Up/Down function.

Press and turn the Double Action encoder to the left.
Returns to the previous item.

Press and turn the Double Action encoder to the right.
Advances to the next item.

- *If you do not perform a search or only search for a song name or audiobook, this function is not valid.*
- *During an artist search, albums for that artist can be played.*
- *If an album is selected during an artist search, the Up/Down function can be used to play other albums by that artist.*
- *This function is inactive during shuffle playback.*
- *This function is available in USB/Portable audio player mode.*

Search Position Memory

During iPhone/iPod playback, you can quickly return to the last-selected hierarchy level in the search mode.

1 **Press ⮌.**
The hierarchy you selected last in the search mode is displayed.

Random Play Shuffle (M.I.X.)

1 **Press FUNCTION/SETUP.**

2 **Turn the Double Action encoder to select M I X, and press 🔍/ENTER.**
The Shuffle mode is activated.

3 **Turn the Double Action encoder to select the M I X (Shuffle) playback mode, and press 🔍/ENTER.**

M I X ALBUM	🔀	: An album in the iPhone/iPod is selected at random, and is played back in the album song order.
SONG	🔀	: If you select a song in the search mode, all songs in the selected mode are played back at random.
OFF		: Shuffle mode off.

4 **Press FUNCTION/SETUP.**
The songs will be played back in random sequence.

- *If no operation is performed for 10 seconds, the unit will return to normal mode.*
- *To cancel, select OFF in the above procedure.*
- *Shuffle Album/Shuffle Song works the same way as iPhone/iPod Shuffle Albums/Shuffle Songs.*

Random Play Shuffle All

Shuffle ALL plays all songs in the iPhone/iPod randomly.

1 **Press 🔍/ENTER.**
The Menu Select screen is displayed.

2 **Press 🔍/ENTER while selecting SHUFFLE ALL.**
The indicator 🔀 ALL lights, and the songs will be played back in random sequence.

- *To cancel, set the Shuffle mode to OFF. Refer to "Random Play Shuffle (M.I.X.)" (page 11).*
- *If SHUFFLE ALL is selected, the selected ones which are being played back in the search mode are cancelled.*

Repeat Play

1 **Press FUNCTION/SETUP.**
The Function screen is displayed.

2 **Press 🔍/ENTER.**
The Repeat mode is activated.

3 **Turn the Double Action encoder to select REPEAT SONG, and press 🔍/ENTER.**

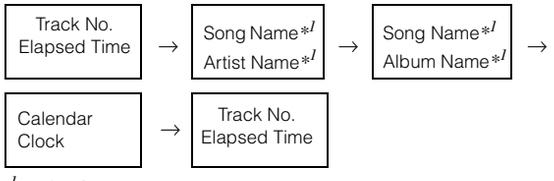
REPEAT SONG	🔁	: A single song is repeatedly played back.
OFF		: Repeat mode off.

4 **Press FUNCTION/SETUP.**
The song is repeatedly played back.

- *If no operation is performed for 10 seconds, the unit returns to normal mode.*
- *To cancel, select OFF in the above procedure.*
- *During repeat playback, no other songs are selectable by pressing ⏮ or ⏭.*

Changing the Display

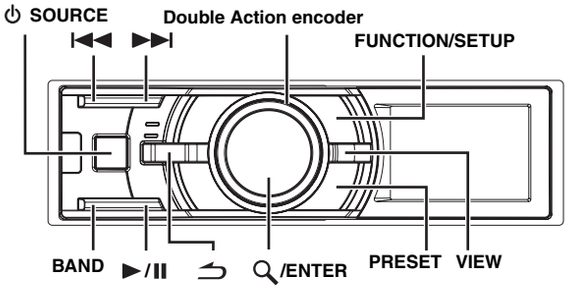
Press VIEW.



*1 *TAG information*
"ARTIST"/"ALBUM"/"SONG" is displayed if there is no tag information.

- *Only alphanumeric characters can be displayed.*
- *The maximum number of characters is 128 (128 byte).*
- *Some characters may not be correctly displayed.*
- *"NO SUPPORT" is displayed when text information is not compatible with this unit.*

USB memory/Portable audio player/Changer (Optional)



If a USB memory device/Portable audio player or changer is connected to the unit, MP3/WMA/AAC files can be played back.

- *In the USB mode, when this unit is reset, ACC is switched from OFF to ON, or when the USB is connected to this unit, "BANKING" is displayed for several seconds.*

Using the USB Memory Banking Function

1. What is a Bank?

A bank is a unit of up to 1,000 songs, which is stored in memory. "Banking" refers to the grouping of songs available in USB memory, in banks of 1,000 songs each.

2. About Banking

While a bank is being built up, "BANKING" is displayed. Banking occurs whenever a USB memory device is connected or after power to the head unit turns on.

It can take anywhere from a few seconds to up to 10 minutes for banking to complete. This depends on the number of files and folders in USB memory.

3. Available operations while Banking

- Search functions, such as album search or tag information (artist display, etc.) are available. However, during Banking, the information display changes so the VIEW operation is not available.
- With a song playing, Regular fast-forwarding and next song selection is available.
- While Banking, the song playback order may differ from the song order in the USB memory device.

BANK Function (USB memory)

This unit has a BANK function that automatically divides every 1,000 songs stored in USB memory into individual banks to make searching and playing back a song easier. A maximum of 1,000 songs for one bank can be stored according to the order stored in USB memory. A maximum of 10 banks (10,000 songs) can be recognized. BANK1 (songs 1 to 1,000) is set as the default. If you want to search beyond 1,000 songs, perform the following operation to select a different bank.

BANK No.	Song number
BANK1	1~1,000
BANK2	1,001~2,000
⋮	⋮
BANK10	9,001~10,000

1 **Press PRESET.**
The BANK selection mode is displayed.

2 **Turn the Double Action encoder.**
Select the desired BANK.
You can scroll the page by pressing and turning the Double Action encoder.

3 **Press /ENTER.**
Each operation can be performed in the selected bank.

- *Even if the files are contained in the same folder, they may be saved as different BANK.*

Playback

1 **Press SOURCE to select the USB AUDIO or CHANGER mode.**

2 **Press ◀◀ or ▶▶ to select the desired track (file).**

Returning to the beginning of the current track (file):
Press ◀◀.

Fast backward:
Press and hold ◀◀.

Advancing to the beginning of the next track (file):
Press ▶▶.

Fast forward:
Press and hold ▶▶.

- *When a Portable audio player is connected, fast-forwarding/fast-reversing is not available.*

3 **To pause playback, press ▶/II.**
Pressing ▶/II again will resume playback.

- *WMA format files that are protected by DRM (Digital Rights Management), AAC format files that have been purchased from the iTunes Store and files that are copy-protected (copyright protection) cannot be played back on this unit.*
- *The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.*
- *If there is tag information, artist name/album name/track name is displayed.*
- *ID3 tag/WMA tag*
  If an MP3/WMA/AAC file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed (e.g., song name, artist name, and album name). All other tag data is ignored.
- *"NO SUPPORT" is displayed when text information is not compatible with this unit.*
- *Before disconnecting USB memory, be sure to change to another source or set to pause.*

Selecting a Disc (Changer) (Optional)

An optional 6-disc or 12-disc CD Changer may be connected to this unit if it is Ai-NET compatible. With a CD Changer connected to the Ai-NET input of this unit, the CD Changer will be controllable from this unit.

Using the KCA-410C (Versatile Link Terminal) multiple changers can be controlled by this unit.

See "Multi-Changer Selection (Optional)" on page 13 for selecting the CD Changers.

- *The controls on this unit for CD Changer operation are operative only when a CD Changer is connected.*
- *The DVD changer (optional) is controllable from this unit as well as the CD changer.*

1 **Press PRESET.**
The DISC CHANGE screen is displayed.

2 **Turn the Double Action encoder to select a disc.**
You can scroll the page by pressing and turning the Double Action encoder.

3 **Press /ENTER.**
The selected disc number appears in the display and CD/MP3/WMA/AAC playback starts.

Multi-Changer Selection (Optional)

When using KCA-410C (Versatile Link Terminal), you can connect two changers and two external outputs (AUX).

1 **Press ⏻ SOURCE on this unit to activate the CD CHANGER mode.**

2 **Press BAND to activate the CD Changer Selection mode.**
The CD Changer Selection mode remains active for several seconds.

3 **Press BAND until the desired CD Changer appears on the display.**

- *For further details about the external input (AUX) when using KCA-410C, see "Setting the AUX Mode (V-Link)" on page 21.*

Repeat Play

1 **Press FUNCTION/SETUP.**

2 **Press 🔍/ENTER.**
The repeat mode is activated.

3 **Turn the Double Action encoder to select the Repeat playback mode.**

USB memory mode :

REPEAT ONE	🔁	: Only a track is repeatedly played back.
FOLDER	🔁	: Only files in a folder are repeatedly played back.
OFF		: Repeat mode is turned off.

Portable audio player mode :

REPEAT SONG	🔁	: Only a track is repeatedly played back.
OFF		: Repeat mode is turned off.

CD Changer mode :

REPEAT ONE	🔁	: Only a file is repeatedly played back.
FOLDER *	🔁	: Only files in a folder are repeatedly played back.
DISC	🔁	: A disc is repeatedly played back.
OFF		: Repeat mode is turned off.

* *When an MP3 compatible CD changer is connected.*

- *If REPEAT DISC is set to ON during M I X ONE play in CD changer mode, M.I.X. will apply to the current disc only.*

4 **Press 🔍/ENTER.**

5 **Press FUNCTION/SETUP.**
The track (file) will be played repeatedly.

- *If no operation is performed for 10 seconds, the unit returns to normal mode.*
- *To cancel, select OFF in the above procedure.*

M.I.X. (Random Play)

1 **Press FUNCTION/SETUP.**

2 **Turn the Double Action encoder to select M I X.**

3 **Press 🔍/ENTER.**
The M.I.X. mode is activated.

4 **Turn the Double Action encoder to select the M I X playback mode.**

USB memory mode :

M I X FOLDER	🔀	: Only files in a folder are played back in random sequence.
ALL	🔀 ALL	: All songs in USB memory (current Bank) are played back in random sequence.
OFF		: M.I.X. mode is turned off.

Portable audio player mode :

M I X SONG	🔀	: Only files in a folder are played back in random sequence.
ALL	🔀 ALL	: All songs in Portable audio player are played back in random sequence.
OFF		: M.I.X. mode is turned off.

CD Changer mode :

M I X ONE	🔀	: All files in a disc are played back in random sequence, and playback shifts to the next disc.
FOLDER *1	🔀	: Only files in a folder are played back in random sequence.
ALL *2	🔀 ALL	: All the tracks on all the CDs in the current magazine will be played back in the random sequence.
OFF		: M.I.X. mode is turned off.

*1 *When an MP3 compatible CD changer is connected.*
*2 *When a CD changer equipped with the ALL M.I.X. function is connected.*

- *When a song is played back during Random (M.I.X.) play in the USB mode, the song can be played back again randomly even if not all songs on the USB Memory have been played back.*
- *If M I X ONE is set to ON during REPEAT DISC play in CD changer mode, M.I.X. will apply to the current disc only.*

5 **Press 🔍/ENTER.**

6 **Press FUNCTION/SETUP.**
The tracks (files) will be played back in random sequence.

- *If no operation is performed for 10 seconds, the unit returns to normal mode.*
- *To cancel, select OFF in the above procedure.*

Searching for CD Track Number (CD changer only)

You can search for a song by track number.

1 **Press 🔍/ENTER during play.**
This will set the search mode.

2 **Turn the Double Action encoder to select the desired track, and then press 🔍/ENTER.**
This will play the selected track.

- *Press ⮌ in the search mode to cancel. Or, the search mode is cancelled if no operation is performed for 60 seconds.*
- *During list selection, if you turn the **Double Action encoder** to the left or right while pressed, the list screen scrolls screen by screen. If you turn and hold the **Double Action encoder** to the left or right while pressed, the list screen continuously scrolls.*
- *When CD Track Number Search is made during M.I.X. play, the M.I.X. play mode will be cancelled.*

Searching for a desired Song (USB memory/Portable audio player)

A USB memory device/Portable audio player can contain hundreds of songs. By using file tag information and keeping these songs organised in playlists, this unit's search functions will ease song searches.
Each music category has its own individual hierarchy. Use the Playlist/Artist/Album/Genre/Composer/Song/Folder/File search mode to narrow searches based on the table below.

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
PLAYLIST	SONG	—	—
ARTIST	ALBUM	SONG	—
ALBUM	SONG	—	—
GENRE	ARTIST	ALBUM	SONG
COMPOSER	ALBUM	SONG	—
SONG	—	—	—
FOLDER	FILE	—	—
FILE	—	—	—

For example: Searching by Artist name
The following example explains how an ARTIST search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

1 **Press 🔍/ENTER to activate the search selection mode.**

2 **Turn the Double Action encoder to select the ARTIST search mode, and then press 🔍/ENTER.**
PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE ↔ COMPOSER ↔ SONG ↔ FOLDER ↔ FILE ↔ PLAYLIST

3 **Turn the Double Action encoder to select the desired Artist, and then press 🔍/ENTER.**

4 **Turn the Double Action encoder to select an album, and then press 🔍/ENTER.**

5 **Turn the Double Action encoder to select a song and press 🔍/ENTER.**
The selected song is played back.

- *After pressing and holding 🔍/ENTER for at least 2 seconds while in each hierarchy (except SONG/FILE hierarchy),all songs of the selected hierarchy are played back.*
- *Press and hold ⮌ for at least 2 seconds in the search mode to cancel.*
- *While in the Search mode, press ⮌ to switch to the previous mode.*
- *When search is made during M.I.X. play, the M.I.X. play mode will be cancelled.*
- *"ROOT" is displayed for the root folder which does not have folder name.*
- *In the search mode, you can scroll the page by pressing and turning the **Double Action encoder**.*
- *If no operation is performed for 60 seconds, the unit will return to normal mode automatically.*
- *In the search mode, when there is no tag information in the searched files, "NO DATA" will be displayed, it may also be displayed when searching some files depending on the property of the files.*
- *In FOLDER/FILE search mode, only the current BANK's folders/files can be searched.*

File/Folder Name Search (MP3 Changer)

Folder and file names may be searched and displayed during playback.

1 **During MP3/WMA/AAC playback, press 🔍/ENTER to activate the search mode.**

2 **Turn the Double Action encoder to select Folder Name Search mode or File Name Search mode, and then press 🔍/ENTER.**

Folder Name Search mode

3 **Turn the Double Action encoder to select the desired folder.**
You can scroll the page by pressing and turning the Double Action encoder.

4 **Press and hold 🔍/ENTER for at least 2 seconds to play back the first file in the selected folder.**

- *Press and hold ⮌ for at least 2 seconds in the search mode to cancel. Or, the search mode is cancelled if no operation is performed for 60 seconds.*
- *To search for files in the Folder Name Search mode, press 🔍/ENTER. Files in the folder may be searched.*
- *Press ⮌ to exit Folder Name Search mode in step 3 in order to select File Name Search mode.*
- *"ROOT" is displayed for the root folder which does not have folder name.*
- *When Folder Name Search is made during M.I.X. play, the M.I.X. play mode will be cancelled.*

File Name Search mode

3 Select the desired file by turning the Double Action encoder.
You can scroll the page by pressing and turning the Double Action encoder.

4 Press /ENTER to play back the selected file.

- *Press and hold for at least 2 seconds in the search mode to cancel. Or, the search mode is cancelled if no operation is performed for 60 seconds.*
- *Press in the search mode to return to the previous mode.*
- *When File Name Search is made during M.I.X. play, the M.I.X. play mode will be cancelled.*

Quick Search (changer)

You can search for tracks (files).

1 Press and hold /ENTER for at least 2 seconds in the Changer mode to activate Quick Search mode.

2 Turn the Double Action encoder to select a desired track (file).
The selected track is played back immediately.

- *Press in the search mode to cancel. Or, the search mode is cancelled if no operation is performed for 10 seconds.*

Select the desired Folder (Folder up/down) (MP3/WMA/AAC)

Press and turn the Double Action encoder to select the desired folder.
Turning to the right will advance to the next folder.
Turning to the left will return to the previous folder.
The first file in the selected folder is played back.

- *USB Memory/Portable Audio Player*
  *During playback in normal mode, if you press and turn the **Double Action encoder** before you perform a search operation, the FOLDER UP/DOWN function will become active.*
  *During playback in normal mode, if you press and turn the **Double Action encoder** after you perform a search operation, the Up/Down Function will become active. For details, refer to "Up/Down Function" on page 11.*

Changing the Display

Press VIEW.

USB/Portable audio player mode:

Track No. Elapsed Time → Folder Name File Name → Song Name*1 Artist Name*1 →
Song Name*1 Album Name*1 → Calendar Clock → Track No. Elapsed Time

CD Changer mode:

Disc No. / Track No. Elapsed Time → Track Text*2 Disc Text*3 → Calendar Clock
→ Disc No. / Track No. Elapsed Time

MP3 Changer mode:

Disc No. / Folder No. / File No. Elapsed Time → Folder Name File Name →
Song Name*1 Artist Name*1 → Song Name*1 Album Name*1 → Calendar Clock
→ Disc No. / Folder No. / File No. Elapsed Time

**1 TAG information*
"ARTIST"/"ALBUM"/"SONG" is displayed if there is no tag information.
**2 "T TEXT" is displayed if there is no Track Text.*
**3 "D TEXT" is displayed if there is no Disc Text.*

- *Only alphanumeric characters can be displayed.*
- *The maximum number of characters is 128 (128 byte) for USB and Portable audio player.*
- *The maximum number of characters is 64 (64byte) for Changer.*
- *Some characters may not be correctly displayed.*
- *"NO SUPPORT" is displayed when text information is not compatible with this unit.*

About MP3/WMA/AAC

CAUTION

Except for private use, duplicating audio data (including MP3/WMA/AAC data) or distributing, transferring, or copying it, whether for free or for a fee, without permission of the copyright holder is strictly prohibited by the Copyright Act and by international treaty.

What is MP3?

MP3, whose official name is "MPEG-1 Audio Layer 3," is a compression standard prescribed by the ISO, the International Standardization Organization and MPEG which is a joint activity institution of the IEC.

MP3 files contain compressed audio data. MP3 encoding is capable of compressing audio data at extremely high ratios, reducing the size of music files to as much as one-tenth their original size. This is achieved while still maintaining near CD quality. The MP3 format realises such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds.

What is AAC?

AAC is the abbreviation for "Advanced Audio Coding," and is a basic format of audio compression used by MPEG2 or MPEG4.

What is WMA?

WMA, or "Windows Media™ Audio," is compressed audio data. WMA is similar to MP3 audio data and can achieve CD quality sound with small file sizes.

Method for creating MP3/WMA/AAC files

Audio data is compressed by using MP3/WMA/AAC specified software. For details on creating MP3/WMA/AAC files, refer to the user's manual for that software.
MP3/WMA/AAC file extensions that can be played back on the unit are as follows:
MP3: "mp3"
WMA: "wma" (ver. 7.1, 8, 9, 9.1, 9.2 supported)
AAC: "m4a"
WMA is not supported for the following files, Windows Media Audio Professional, Windows Media Audio 9 Voice or Windows Media Audio 9 Pro Lossless.

Depending on the software that is used to create AAC, the file format may differ from the extension.
Playback of AAC files encoded by iTunes is supported.

Supported playback sampling rates and bit rates

MP3
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
Bit rates: 32 - 320 kbps

WMA
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz
Bit rates: 16 - 320 kbps

AAC
Sampling rates: 48 kHz, 44.1 kHz
Bit rates: 8 - 576 kbps

This device may not play back correctly depending on sampling rates.
The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.

ID3 tags/WMA tags

This device supports ID3 tag v1 and v2.2.0, v2.3.0 and WMA tag. The following files do not support compression, coding, grouping or non-synchronization.
If tag data is in an MP3/WMA/AAC file, this device can display the title (track title), artist name, and album name ID3 tag/WMA tag data.
This device can only display single-byte alphanumeric characters and the underscore. For non-supported characters, "NO SUPPORT" is displayed.
If information contains characters other than ID3 tag information, the audio file may not be played back.
The tag information may not be correctly displayed, depending on the contents.
Do not make a file's playback time more than 1 hour.

Playing back MP3/WMA/AAC

MP3/WMA/AAC files are prepared, and then written to USB memory. Or, synchronize an MP3/WMA file using Windows Media Player (Ver. 7.1, 8, 9, 9.1, 9.2), and then forward to the Portable audio player.
A USB memory device can hold up to 10,000 files/1000 folders (including Root Folders). Playback may not be performed if a USB memory / Portable audio player device exceeds the limitations described above.
Do not make a file's playback time more than 1 hour.

Media supported

This device can play back USB memory / Portable audio player media.

Corresponding File Systems

This device supports FAT 12/16/32.

Terminology

Bit rate

This is the "sound" compression rate specified for encoding. The higher the bit rate, the higher the sound quality, but also the larger the files.

Sampling rate

This value shows how many times per second the data is sampled (recorded). For example, music CDs use a sampling rate of 44.1 kHz, so the sound is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the larger the volume of data.

Encoding

Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio compression format.

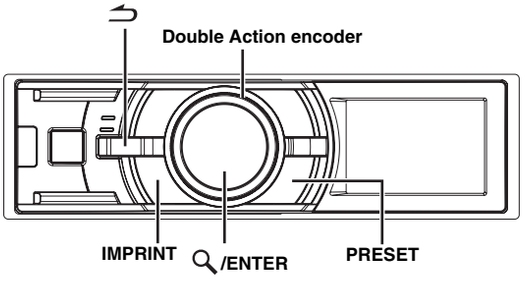
Tag

Song information such as track titles, artist names, album names, etc., written into MP3/WMA/AAC files.

Root folder

The root folder is found at the top of the file system. The root folder contains all folders and files.

Sound Setting



Adjusting Subwoofer/Bass/Treble/ Balance (Between Left and Right)/Fader (Between Front and Rear)/Loudness/ Defeat

1 Press IMPRINT repeatedly to choose the desired mode.

Each press changes the mode as follows:

SUBW LV*1 → BASS LV → TREBLE LV → BALANCE LV → FADER LV*2 → LOUD*3 → DEFEAT → VOLUME → SUBW LV*1

Subwoofer: +0 ~ +15
Bass level: –7 ~ +7
Treble level: –7 ~ +7
Balance: –15 ~ +15
Fader: –15 ~ +15
Loudness : ON/OFF
Defeat : ON/OFF
Volume: 0 ~ 35

- *If **IMPRINT** is not pressed within 5 seconds after selecting the Subwoofer, Bass, Treble, Balance or Fader mode, the unit automatically returns to normal mode.*
- *Loudness introduces a special low-and high-frequency emphasis at low listening levels. This compensates for the ear's decreased sensitivity to bass and treble sound. The function is inoperable when DEFEAT is set to ON.*

*1 *When the subwoofer mode is set to OFF, its level cannot be adjusted.*
*2 *If you set the 4.2ch (FRONT/REAR/SUBW.)/2.2ch (3WAY) switch of the IMPRINT audio processor (PXA-H100) to 2.2ch (3WAY), you cannot adjust the FADER mode. For details, refer to the Owner's Manual of PXA-H100.*
*3 *When an external audio processor is connected, this setting cannot be made.*

2 Turn the Double Action encoder until the desired sound is obtained in each mode.

- *Depending on the connected devices, some functions and display indications do not work.*

Turning Subwoofer ON/OFF

When the subwoofer is on, you can adjust the subwoofer output level (refer to page 17).
For this unit, the following setting can be made only when the IMPRINT audio processor (PXA-H100) is not connected.

1 Press and hold IMPRINT for at least 2 seconds to activate the AUDIO selection mode.

2 Turn the Double Action encoder to select the SUBW mode, and then press /ENTER.

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

* *Displayed only when subwoofer is ON.*

3 Turn the Double Action encoder to select SUBW ON/OFF, and then press /ENTER.

ON ↔ OFF

4 Press to return to normal mode.

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *If is pressed during setting, the unit returns to the previous item.*

Setting the Subwoofer System

When the subwoofer is on, you can select either SYS 1 or SYS 2 for the desired subwoofer effect.
For this unit, the following setting can be made only when the IMPRINT audio processor (PXA-H100) is not connected.

1 Press and hold IMPRINT for at least 2 seconds to activate the AUDIO selection mode.

2 Turn the Double Action encoder to select the SUBW SYSTEM mode, and then press /ENTER.

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

* *Displayed only when subwoofer is ON.*

3 Turn the Double Action encoder to select the SUBW SYS 1 or SUBW SYS 2, and then press /ENTER.

SYS 1 ↔ SYS 2

SYS 1 : Subwoofer level changes according to the main volume setting.
SYS 2 : Subwoofer level change is different from the main volume setting. For example, even at low volume settings, the subwoofer is still audible.

4 Press to return to normal mode.

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *If is pressed during setting, the unit returns to the previous item.*
- *This function is inoperable when Subwoofer is set to OFF.*

Setting the Bass Control

You can change the Bass Frequency emphasis to create your own tonal preference.
For this unit, the following setting can be made only when the IMPRINT audio processor (PXA-H100) is not connected.

1 Press and hold IMPRINT for at least 2 seconds to activate the AUDIO selection mode.

2 Turn the Double Action encoder to select the BASS Adjustment mode, and then press /ENTER.

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

* *Displayed only when subwoofer is ON.*

Setting the Bass Level

3-1*1 Turn the Double Action encoder to select the desired bass level (–7~+7), and then press /ENTER.

You can emphasize or weaken the bass level.

Setting the Bass Bandwidth

3-2 Turn the Double Action encoder to select the desired bass bandwidth, and then press /ENTER.

Changes the boosted bass bandwidth to wide or narrow. A wider setting will boost a wide range of frequencies above and below the centre frequency. A narrower setting will boost only frequencies near the centre frequency.

Setting the Bass Centre Frequency

3-3 Turn the Double Action encoder to select the desired bass centre frequency, and then press /ENTER.

80 (Hz) ↔ 100 (Hz) ↔ 200 (Hz) ↔ 60 (Hz) ↔ 80 (Hz)

Emphasizes the displayed bass frequency ranges.

4 Press ⮌ to return to normal mode.

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *If ⮌ is pressed during setting, the unit returns to the previous item.*
- *The function is inoperable when DEFEAT is set to ON.*

**1 The adjustment can also be made by pressing IMPRINT. Refer to "Adjusting Subwoofer/Bass/Treble/Balance (Between Left and Right)/Fader (Between Front and Rear)/Loudness/Defeat" (page 17).*

Setting the Treble Control

You can change the Treble Frequency emphasis to create your own tonal preference.
For this unit, the following setting can be made only when the IMPRINT audio processor (PXA-H100) is not connected.

1 Press and hold IMPRINT for at least 2 seconds to activate the AUDIO selection mode.

2 Turn the Double Action encoder to select the TREBLE Adjustment mode, and then press /ENTER.

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

* *Displayed only when subwoofer is ON.*

Setting the Treble Level

3-1*2 Turn the Double Action encoder to select the desired treble level (–7~+7), and then press /ENTER.

You can emphasize the treble level.

Setting the Treble Centre Frequency

3-2 Turn the Double Action encoder to select the desired treble centre frequency, and then press /ENTER.

10.0 kHz ↔ 12.5 kHz ↔ 15.0 kHz ↔ 17.5 kHz ↔ 10.0 kHz

Emphasizes the displayed treble frequency ranges.

4 Press ⮌ to return to normal mode.

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *If ⮌ is pressed during setting, the unit returns to the previous item.*
- *The function is inoperable when DEFEAT is set to ON.*

**2 The adjustment can also be made by pressing IMPRINT. Refer to "Adjusting Subwoofer/Bass/Treble/Balance (Between Left and Right)/Fader (Between Front and Rear)/Loudness/Defeat" (page 17).*

Adjusting the High Pass Filter

The High Pass Filter on this unit can be adjusted to suit your personal taste.
For this unit, the following setting can be made only when the IMPRINT audio processor (PXA-H100) is not connected.

1 Press and hold IMPRINT for at least 2 seconds to activate the AUDIO selection mode.

2 **Turn the Double Action encoder to select the HPF Adjustment mode, and then press /ENTER.**

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

* *Displayed only when subwoofer is ON.*

3 **Turn the Double Action encoder to select the desired HPF frequency, and then press /ENTER.**

OFF ↔ 80 (Hz) ↔ 120 (Hz) ↔ 160 (Hz)

4 **Press to return to normal mode.**

- *If no operation is performed for 15 seconds, the unit will return to normal mode automatically.*
- *If is pressed during setting, the unit returns to the previous item.*
- *The function is inoperable when DEFEAT is set to ON.*

Operating the External Audio Processor

You can call up the preset memory of the external audio processor from this unit.

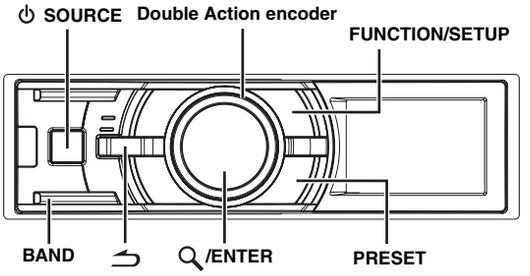
1 **Press and hold PRESET for at least 2 seconds to call the external audio processor mode when the external audio processor is connected.**
The AP Preset screen is displayed.

2 **Turn the Double Action encoder to select the preset number, and press /ENTER.**

- *For the operation of external audio processor, refer to the Owner's Manual of the external audio processor you purchased.*

SETUP

Use the SETUP menu to flexibly customize the unit to suit your own preferences and usage. Choose settings from GENERAL,DISPLAY, etc., to make the desired changes.



Follow steps 1 to 5 to choose an item to change. See the item descriptions following Step 5 for further details.

1 **Press and hold FUNCTION/SETUP for at least 2 seconds to activate the SETUP selection mode.**

2 **Turn the Double Action encoder to select the desired item, and then press /ENTER.**

BT*1 ↔ AUDIO*2 ↔ GENERAL ↔ DISPLAY ↔ IPOD ↔ BT
(e.g. Select GENERAL)

**1 Displayed only when INT MUTE is set to OFF, and the mode is set to other than BT AUDIO.*
**2 Displayed only when an external audio processor is connected. For details, refer to the Owner's Manual of the external audio processor.*

3 **Turn the Double Action encoder to select a setting item, and then press /ENTER.**
(e.g. Select POWER IC)

BT:
BT IN
AUDIO*3:
USER PRESET*4 ↔ MX*4 ↔ SUBW*4 ↔ MX LEVEL*5 ↔ USER PRESET*4

GENERAL:
CALENDAR ↔ CALENDAR ADJ*6 ↔ CLK MODE ↔ CLK ADJ*7 ↔ PLAY MODE ↔ BEEP ↔ INT MUTE*8 ↔ AUX+ ↔ AUX+ NAME*9 ↔ AUX ↔ AUX NAME*9 ↔ DIGITAL AUX ↔ D-AUX NAME*10 ↔ AUX IN GAIN*11 ↔ POWER IC ↔ DEMO ↔ CALENDAR

DISPLAY:
DIMMER ↔ SCROLL TYPE ↔ TEXT SCROLL ↔ DIMMER

IPOD:
PLAYLISTS ↔ ARTISTS ↔ ALBUMS ↔ PODCASTS ↔ AUDIOBOOKS ↔ GENRES ↔ COMPOSERS ↔ SONGS ↔ PLAYLISTS

*[3] *If IMPRINT audio processor is connected, you can make more detailed settings for the audio setting. For details, refer to "IMPRINT Operation (Optional)" (page 22).*
*[4] *Displayed only when an external audio processor is connected.*
*[5] *Displayed only when MX is set to ON and an external audio processor is connected.*
*[6] *Refer to "Setting the Calendar" (page 7).*
*[7] *Refer to "Setting the Time" (page 7) .*
*[8] *Displayed only when BT IN is OFF.*
*[9] *The setting can be made only when AUX+/AUX is set to ON.*
*[10] *Displayed only when DIGITAL AUX is set to ON.*
*[11] *Displayed only when AUX+ is set to ON.*

4 Turn the Double Action encoder to change the setting, and then press /ENTER.
(e.g. Select POWER IC ON or POWER IC OFF.)

5 Press and hold for 2 seconds to return to normal mode.

- *Pressing during the procedure will return to the previous mode.*
- *If no operation is performed for 60 seconds, the unit will return to normal mode automatically.*

Bluetooth Setting

Select BT from the setup main menu in step 2 above.
If an optional Bluetooth INTERFACE (KCE-400BT) is connected, you can place a hands-free call by a Bluetooth- equipped mobile phone. Make this setting when the Bluetooth INTERFACE (KCE-400BT) is connected and the Bluetooth function is used. For details, refer to the Owner's Manual of the optional Bluetooth INTERFACE (KCE-400BT). Set ADPT when the Bluetooth INTERFACE (KCE-400BT) is connected.

- *The button can be used only when the optional Bluetooth INTERFACE (KCE-400BT) is connected.*
- *If the mobile phone compatible with the Voice Dial function is connected, the Voice Dial function can be used.*
- *When INT MUTE is set to ON, the Bluetooth setting cannot be made. When the Bluetooth INTERFACE (KCE-400BT) is connected, set INT MUTE to OFF. Refer to "Turning Mute Mode On/Off (INT MUTE)" (page 21).*

Setting the Bluetooth Connection

BT IN ADPT / BT IN OFF (Initial setting)

Audio Setting (Only when external audio processor is connected)

AUDIO is selected on the setup menu in step 2.

Operating the External Audio Processor (USER PRESET)

PRE-1 (Initial setting) / PRE-2 / PRE-3 / PRE-4 / PRE-5 / PRE-6

Turn the **Double Action encoder** to select the desired preset number, and then press **/ENTER**.
In normal mode, you can also call up the preset memory of the external audio processor by pressing and holding "**PRESET**" for at least 2 seconds. Refer to "Operating the External Audio Processor" on page 19.

- *For the operation of external audio processor, refer to the Owner's Manual of the external audio processor you purchased.*

Turning Media Xpander ON/OFF

OFF (Initial setting) / ON

When the Media Xpander is on, and external audio processor is connected, you can adjust the Media Xpander level.

Setting the MX Level

NON EFFECT / LEVEL 1 / LEVEL 2 / LEVEL 3

MX (Media Xpander) makes vocals or instruments sound distinct regardless of the music source. The FM radio, CD, USB memory and iPhone/iPod, will be able to reproduce the music clearly even in cars with a lot of road noise. The initial setting is different depending on the source.

Subwoofer On and Off

SUBW ON (Initial setting) / SUBW OFF

The adjustment can also be made by pressing and holding IMPRINT* for at least 2 seconds. Refer to "Turning Subwoofer ON/OFF" (page 17).

* *For this unit, when connecting IMPRINT audio processor, you can't turn the subwoofer ON or OFF by pressing IMPRINT.*

General Setting

GENERAL is selected on the setup main menu in step 2.

Setting of Calendar Display Pattern Switching (CALENDAR)

M/D/Y (Initial setting) / Y/M/D / D/M/Y

You can switch the calendar display pattern to be shown when the time is displayed.

Y : shows the year
M : shows the month
D : shows the day
ex. M/D/Y → 01/01/2009

Setting the Clock Display (CLK MODE)

24H / 12H (Initial setting)

You can select the clock display type, 12-hour or 24-hour, depending on your preference.

Connecting an MP3 Changer (PLAY MODE)

CD-DA (Initial setting) / CD-DA&MP3

Perform this setting when connecting MP3 changer. MP3 changer can playback CDs containing both CD and MP3 data. However, in some situations (some enhanced CDs), playback may be difficult. For these special cases, you can select playback of CD data only. When a disc contains both CD or the MP3 data, playback starts from the CD data portion of the disc.

CD-DA : Only CD data can be played back.
CD-DA&MP3 : Both CD data and MP3 file tracks can be played back.

- *Change discs after performing this setting.*

Sound (Beep) Guide Function

BEEP ON (Initial setting) / BEEP OFF

This function will give audible feedback with varying tones depending upon the button pressed.

Turning Mute Mode On/Off (INT MUTE)

INT MUTE ON / INT MUTE OFF (Initial setting)

If a device having the interrupt feature is connected, audio will be automatically muted whenever the interrupt signal is received from the device.

- *When Bluetooth is set to ADPT, INT MUTE cannot be set. Refer to "Setting the Bluetooth Connection" (page 20).*
- *When the Bluetooth INTERFACE (KCE-400BT) is connected, set INT MUTE to OFF.*

Setting the AUX+ Mode

AUX+ ON / AUX+ OFF (Initial setting)

You can input the audio of an external device, (such as a Portable audio player) to the Bluetooth interface connector of this unit. A special Conversion cable (KCE-237B) is necessary to adapt the Bluetooth interface connector as an AUX IN.

An external device and a Bluetooth INTERFACE (KCE-400BT) cannot be connected at the same time.

AUX+ ON : Set to ON when an external device is connected. If ⏻ SOURCE is pressed and AUX+ is selected, the sound of the external device is input to the unit.

AUX+ OFF : When set to OFF, AUX+ source cannot be selected.

Setting the AUX+ NAME Mode

AUX (Initial setting) / TV / DVD / PORTABLE / GAME

You can change the AUX+ NAME when AUX+ is ON.

Setting the AUX Mode (V-Link)

AUX ON / AUX OFF (Initial setting)

You can input TV/video sound by connecting an optional Ai-NET/RCA Interface cable (KCA-121B) or Versatile Link Terminal (KCA-410C) to this component.
You can change the AUX NAME display when AUX is set to ON. Press **/ENTER** when AUX is set to ON, and select AUX NAME by turning the **Double Action encoder**, then press **/ENTER**.
After that, turn the **Double Action encoder** to select the desired AUX name.
If the KCA-410C is connected, it is possible to select two AUX names.

- *Via KCA-410C, up to 2 external devices with RCA output can be connected. In this case, press* ⏻ ***SOURCE*** *to select AUX mode and then press* ***BAND*** *to select your desired device.*

Setting the External Digital Input (DIGITAL AUX)

DIGITAL AUX ON / DIGITAL AUX OFF (Initial setting)

When an ALPINE Ai-NET compatible digital audio processor (PXA-H701) and a DVD player (DVE-5207) not compatible with Ai-NET are connected, set DIGITAL AUX to ON to enjoy 5.1-channel surround sound.
You can change the D-AUX Name when DIGITAL AUX is set to ON. Press **/ENTER** when DIGITAL AUX is set to ON, and select D-AUX NAME by turning **Double Action encoder**, then press **/ENTER**.

- *Press* ⏻ ***SOURCE*** *, and select the D-AUX mode, and adjust the volume, etc.*
- *After input selection is completed, turn the ignition off and back on again. Setting of the optical digital input switch is completed.*
- *Depending on the connected audio processor, DVD player sound may continue to be output, even though the source is changed to another one. If this occurs, set the DVD player's power to OFF.*

Setting the AUX+ Level (AUX IN GAIN)

LOW (Initial setting) / HI

After setting to ON in "Setting the AUX+ Mode", this setting can be carried out.

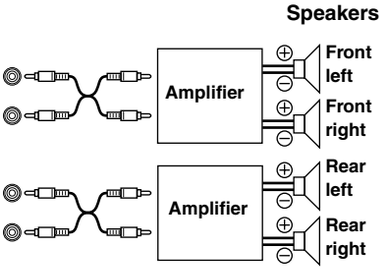
LOW: Decreases the external input audio level.
HI: Increases the external input audio level.

Connecting to an External Amplifier (POWER IC)

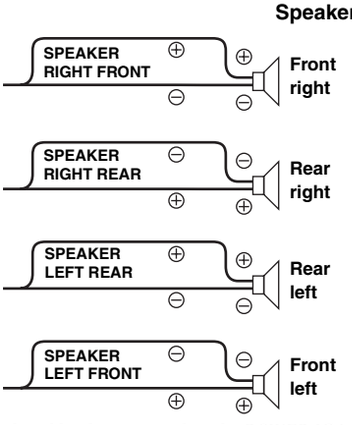
ON (Initial setting) / OFF

When an external amplifier is connected, sound quality can be improved by stopping the power supply of the built-in amplifier.

POWER IC OFF : Use this mode when the front pre-amplifier of the unit is used to drive an external amplifier connected to the speakers. In this setting, the head unit's internal amplifier has no output to drive speakers.



POWER IC ON : The speakers are driven by the built-in amplifier.



- *No sound is produced by the system when the POWER IC is set to OFF.*

Demonstration

DEMO ON / DEMO OFF (Initial setting)

This unit has a Demonstration feature for the display.

- *To quit Demo mode, set to DEMO OFF.*

Display Setting

DISPLAY is selected on the setup main menu in step 2.

Dimmer Control

MANUAL / AUTO (Initial setting)

Set the Dimmer control to AUTO to decrease the illumination brightness of the unit with the head lights of the vehicle ON. This mode is useful if you feel the unit's backlighting is too bright at night.

Scroll Type Setting

TYPE1 / TYPE2 (Initial setting)

Choose from two scrolling methods.
Select the type you prefer.

TYPE1: The characters scroll from right to left, a single character at a time.

TYPE2: Words are built up from left to right, a single character at a time. When the display is filled, it is cleared and the remaining words are displayed the same way until all words of the title have been shown.

Scroll Setting (TEXT SCROLL)

AUTO / MANUAL (Initial setting)

You can set a scroll type such as song title or file name on the source screen. If the search mode screen displays fills with text, the display scrolls.

TEXT SCROLL AUTO : Text information are scrolled automatically.

TEXT SCROLL MANUAL : The first display scrolls text information one time only.

- *In parts of the display, scrolling may not occur, or scroll content may differ.*
- *Regardless of this setting, if the display is filled with text, the display scrolls.*

iPod Setting

IPOD is selected on the setup main menu in step 2.

iPod Search Mode Setting

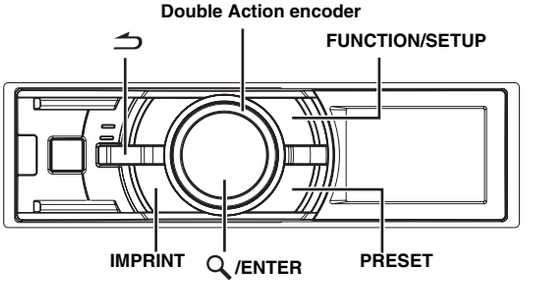
ON / OFF

The unit allows you to search for the iPhone/iPod using eight different search modes.
When the search mode is in PLAYLISTS/ARTISTS/ALBUMS/ PODCASTS/AUDIOBOOKS, the initial setting is ON, and when the search mode is in GENRES/COMPOSERS/SONGS, the initial setting is OFF.

- *For search mode details, refer to "Searching for a desired Song/ Title" (page 9).*

IMPRINT Operation (Optional)

Alpine introduces IMPRINT - the world's first technology that thoroughly eliminates in-car acoustic problems that normally degrade sound quality, which enables us to experience music the way the artist intended, refer to "About IMPRINT" (page 29).
When the IMPRINT audio processor (PXA-H100) (sold separately) is connected to this unit, MultEQ and the following sound adjustment can be performed.



Changing MultEQ mode

MultEQ, developed by Audyssey Labs, automatically corrects the audio for the listening environment. The system is optimized for selected positions in the vehicle. To accomplish this, MultEQ must take measurements of the vehicles response characteristics. For details on the set up procedure, consult your authorized Alpine dealer.

1 Press and hold IMPRINT for at least 2 seconds.

2 Press /ENTER.

3 Turn the Double Action encoder to select the MultEQ mode, and then press /ENTER.

OFF (Manual Mode) → CURVE 1 (MultEQ-1) → CURVE 2 (MultEQ-2) → OFF (Manual Mode)

4 Press and hold IMPRINT for at least 2 seconds to return to normal mode.

- *The Curve mode can be selected only when curve 1 and curve 2 are stored.*
- *When using MultEQ, MX, X-OVER, Time Correction, Factory's EQ, SUBW PHASE, SUBW CHANNEL, TW Setup, EQ Mode, Filter Type, Parametric EQ and Graphic EQ are set automatically. They are no longer user adjustable.*
- *When an external audio processor is connected, the MultEQ function cannot be used.*

Adjusting Sound Setting in Manual Mode

You can change these sound settings to create your own preference when the MultEQ mode is set to MultEQ off (Manual Mode). However, subwoofer in the subwoofer system can be set to ON/OFF regardless of whether the MultEQ setting is ON or OFF.

Use steps 1 to 5 to select one of the Sound menu modes to modify. See the applicable section below for details about the selected item.

1 Press and hold FUNCTION/SETUP for at least 2 seconds to activate the SETUP selection mode.

2 Turn the Double Action encoder to select AUDIO, and then press /ENTER.

BT*1 ↔ AUDIO ↔ GENERAL ↔ DISPLAY ↔ IPOD ↔ BT

*1 *Displayed only when INT MUTE is set to OFF, and the mode is set to other than BT AUDIO.*

3 Turn the Double Action encoder to select the desired item, and then press /ENTER.

USER PRESET ↔ MX ↔ FR-EQ ↔ SOUND FIELD*2 ↔ SUBW ↔ SUBW SYS*3 ↔ SUBW PHASE*3 ↔ SUBW CHANNEL*3 ↔ TW*4 ↔ EQ MODE ↔ FILTER ↔ TCR ↔ MX LEVEL*5
(e.g. Select SUBW)

*2 *In step 3, three sound adjustment items (PARAMETRIC EQ/ GRAPHIC EQ, TIME CORRECTION, X-OVER) can be selected in Sound Field Adjustment mode, turn the **Double Action encoder** to select the desired item, and then press /ENTER to continue to step 4.*
*3 *These functions are inoperable when Subwoofer is set to OFF.*
*4 *This function can be operable only when PXA-H100 (sold separately) is connected and 2.2ch (3WAY) mode is set. For details, refer to the Owner's Manual of PXA-H100.*
*5 *This function is inoperable when MX is set to OFF.*

4 Turn the Double Action encoder to change the setting, and then press /ENTER.

(e.g. Select SUBW ON or SUBW OFF)

5 Press and hold for at least 2 seconds to return to normal mode.

- *Media Xpander, Factory's EQ, Parametric EQ/Graphic EQ Adjustment, EQ Mode and MX Level Adjustment are inoperable when DEFEAT is set to ON.*
- *Pressing returns to the previous Sound menu mode.*
- *If no operation is performed for 60 seconds, Sound menu mode is cancelled.*

USER PRESET

- *If IMPRINT audio processor is connected, you can make more detailed settings for the audio setting. For details, refer to "IMPRINT Operation (Optional)" (page 22).*

Storing the Audio Adjustment Level

You can store up to 3 adjusted/set contents on this unit.
All of the following adjusted/set items are stored in a preset memory.

Items to be adjusted/set	Reference page
EQ ADJ (Parametric EQ/Graphic EQ)	page 24
TCR	page 24
X-OVER	page 25

1 Turn the Double Action encoder to select a preset number, and press and hold /ENTER for at least 2 seconds.

2 Turn the Double Action encoder to select PROTECT YES/NO, and then press /ENTER to store the adjusted contents.

PROTECT YES (Initial setting) ↔ PROTECT NO

- *If YES is selected, the adjusted contents are protected and stored into the preset numbers. When you want to store the parameter into a protected preset number, "REPLACE NO/YES" can be selected.*
- *If PROTECT NO is selected, the preset is stored.*
- *While perform this operation, all adjusted contents of Parametric EQ/Graphic EQ, Time Correction and X-Over will be stored in the preset number.*
- *The stored contents are not deleted even when resetting the unit or disconnecting the battery.*

Recalling the Audio Adjustment Level

You can recall the contents stored in "Storing the Audio Adjustment Level" (page 23).

1 Turn the Double Action encoder to select a preset number, and press /ENTER.
Adjusted/set contents of the selected number are recalled.

- *The User Preset screen can also be recalled in normal mode by pressing and holding PRESET for at least 2 seconds.*

Turning Media Xpander ON/OFF

When the Media Xpander is on, you can adjust the Media Xpander level (refer to page 26).

OFF (Initial setting) ↔ ON

Equalizer Presets (Factory's EQ) (FR-EQ)

10 typical equalizer settings are preset at the factory for a variety of musical source material.

FLAT ↔ POPS ↔ ROCK ↔ NEWS ↔ JAZZ&BLUES ↔ ELECTRICAL DANCE ↔ HIPHOP&RAP ↔ EASY LISTENING ↔ COUNTRY ↔ CLASSICAL ↔ USER1 ↔ USER2 ↔ USER3 ↔ USER4 ↔ USER5 ↔ USER6

- *By selecting User's 1 to 6, you can recall the stored preset number in "Adjusting the Graphic Equalizer Curve" (page 24) or "Adjusting the Parametric Equalizer Curve" (page 24).*

Sound Field Adjustment

The setting of Parametric EQ/Graphic EQ Adjustment, Time Correction and X-Over can be adjusted in this mode.

Adjusting the Parametric Equalizer Curve

You can modify the Equalizer settings to create a response curve more appealing to your personal taste. To adjust the Parametric Equalizer Curve, set the EQ mode to PARAMETRIC EQ. For details, refer to "Setting EQ mode" (page 26).

1 After selecting EQ ADJ (Parametric EQ) from the Sound Field Adjustment mode, turn the Double Action encoder to select the band adjustment, and then press 🔍/ENTER.

BAND1 → BAND2 → BAND3 → BAND4 → BAND5 → BAND1

2 Turn the Double Action encoder to select an item to adjust, then press 🔍/ENTER.

FC (frequency) → LV (level) → Q (bandwidth) → FC (frequency)

Frequency Adjustment

3-1 Turn the Double Action encoder to select frequency bands.

Adjustable frequency bands:
20 Hz to 20 kHz (in 1/3 octave steps)

BAND1: 20 Hz~80 Hz (63 Hz)
BAND2: 50 Hz~200 Hz (150 Hz)
BAND3: 125 Hz~3.2 kHz (400 Hz)
BAND4: 315 Hz~8 kHz (1 kHz)
BAND5: 800 Hz~20 kHz (2.5 kHz)

Level Adjustment

3-2 Turn the Double Action encoder to adjust the level.

Adjustable level: –6 to +6 dB

Bandwidth (Q) Adjustment

3-3 Turn the Double Action encoder to set the bandwidth (Q).

Adjustable bandwidth: 1, 1.5, 3

4 To adjust another band, repeat steps 1 to 3 and adjust all bands.

- *The frequencies of adjacent bands cannot be adjusted within 4 steps.*
- *While adjusting the Parametric EQ, you should consider the frequency response of the connected speakers.*
- *You can select the next band by pressing and turning the **Double Action encoder**.*
- *The User Preset screen can be recalled in the normal mode by pressing and holding **PRESET** for 2 seconds.*

Adjusting the Graphic Equalizer Curve

You can modify the equalizer settings to create a response curve more appealing to your personal taste. To adjust the graphic equalizer curve, set the EQ mode to GRAPHIC EQ. For details, refer to "Setting EQ mode" (page 26).

1 After selecting EQ ADJ (Graphic EQ) from the Sound Field Adjustment mode, turn the Double Action encoder to select the band adjustment, and then press 🔍/ENTER.

BAND1 → BAND2 → BAND3 → BAND4 → BAND5 → BAND6 → BAND7 → BAND1

BAND-1 (63 Hz) / BAND-2 (150 Hz) / BAND-3 (400 Hz) / BAND-4 (1 kHz) / BAND-5 (2.5 kHz) / BAND-6 (6.3 kHz) / BAND-7 (17.5 kHz)

2 Press 🔍/ENTER to activate the level adjusting mode.

3 Turn the Double Action encoder to adjust the level.

Adjustable output level: –6 to +6 dB

4 To adjust another band, repeat steps 1 to 3, and then adjust all bands.

- *You can select the next band by pressing and turning the **Double Action encoder**.*
- *The User Preset screen can be recalled in the normal mode by pressing and holding **PRESET** for 2 seconds.*

Adjusting the Time Correction

Before performing the following procedures, refer to "About Time Correction" (page 27).

1 After selecting TIME CORRECTION from the Sound Field Adjustment mode, turn the Double Action encoder to select the band adjustment, and then press 🔍/ENTER.

2.2ch (3WAY) System

F-L (Initial setting) → F-R → R-L → R-R → SW-L → SW-R → F-L
(Mid-L) (Mid-R) (High-L) (High-R) (Mid-L)

4.2ch (FRONT/REAR/SUBW.) System

F-L (Initial setting) → F-R → R-L → R-R → SW-L → SW-R → F-L
(Front-L) (Front-R) (Rear-L) (Rear-R) (Front-L)

2 Press 🔍/ENTER to activate the Time Correction input mode.

3 Turn the Double Action encoder to adjust the distance (0.0 to 336.6 cm).

L = (distance to farthest speaker) – (distance to other speakers)

Refer to "Time Correction Value List" on page 27.

4 Repeat steps 1 to 3 to set another speaker.
By setting these values to make its sound reach the listening position at the same time as the sound of other speakers.

- *You can select the next band by pressing and turning the **Double Action encoder**.*
- *The User Preset screen can be recalled in the normal mode by pressing and holding **PRESET** for 2 seconds.*

Adjusting the Crossover Settings (X-OVER)

Before performing the following procedures, refer to "About the Crossover" (page 28).

2.2ch (3WAY) System

1 After selecting X-OVER from the Sound Field Adjustment mode, turn the Double Action encoder to select the band adjustment, and then press /ENTER.

2.2ch (3WAY) System / NORMAL (L=R)

Setting items:
LOW / MID-L / MID-H / HIGH

2.2ch (3WAY) System / INDIVIDUAL (L/R)

Setting items:
LOW-L / LOW-R / MID-L-L / MID-L-R / MID-H-L / MID-H-R / HIGH-L / HIGH-R

2 Turn the Double Action encoder to select an item to adjust, then press /ENTER.

FC → LV → SLP → FC
(cut-off frequency) (level) (slope) (frequency)

Cut-off frequency

3-1 Turn the Double Action encoder to select the desired cut-off frequency (Crossover Point).
Adjustable frequency bands:

2.2ch (3WAY) System

Setting items:

LOW / MID-L	20 Hz~200 Hz
MID-H	20 Hz~20 kHz
HIGH	(1 kHz~20 kHz)*1/(20 Hz~20 kHz)*2

*1 *When MAKER'S is selected, refer to "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 26).*
*2 *When USER'S is selected, refer to "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 26).*

Level Adjustment

3-2 Turn the Double Action encoder to adjust the output level.
Adjustable output level: –12 to 0 dB.

Slope Adjustment

3-3 Turn the Double Action encoder to adjust the slope.
Adjustable slope: FLAT*, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

* *FLAT can be set for the HIGH slope only when USER'S is selected in "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 26). Depending on the response characteristics of the speaker, care should be taken when setting the response slope to FLAT, as speaker damage may result. With this unit, a message is displayed when the response slope for the high range speaker is set to FLAT.*

4 Repeat steps 1 to 3 to make adjustment to the other bands.

4.2ch (FRONT/REAR/SUBW.) System

1 After selecting X-OVER from the Sound Field Adjustment mode, turn the Double Action encoder to select the band adjustment, and then press /ENTER.

4.2ch (FRONT/REAR/SUBW.) System / NORMAL (L=R)

Setting items:
LOW (SUB-W) / MID (REAR) / HIGH (FRONT)

4.2ch (FRONT/REAR/SUBW.) System / INDIVIDUAL (L/R)

Setting items:
LOW (SUB-W)-L / LOW (SUB-W)-R / MID (REAR)-L / MID (REAR)-R / HIGH (FRONT)-L / HIGH (FRONT)-R

2 Turn the Double Action encoder to select an item to adjust, then press /ENTER.

FC → LV → SLP → FC
(cut-off frequency) (level) (slope) (frequency)

Cut-off frequency

3-1 Turn the Double Action encoder to select the desired cut-off frequency (Crossover Point).
Adjustable frequency bands:

4.2ch (FRONT/REAR/SUBW.) System

Setting items:
20 Hz~200 Hz

Level Adjustment

3-2 Turn the Double Action encoder to adjust the output level.
Adjustable output level: -12 to 0 dB.

Slope Adjustment

3-3 Turn the Double Action encoder to adjust the slope.
Adjustable slope: FLAT, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

4 Repeat steps 1 to 3 to make adjustment to the other bands.

- *You can select the next band by pressing and turning the **Double Action encoder**.*
- *While adjusting the X-over, you should consider the frequency response of the connected speakers.*
- *About the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) system*
  You can switch to 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) system mode with the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) switch on the PXA-H100. For details, refer to the Owner's Manual of PXA-H100.
- *The User Preset screen can be recalled in the normal mode by pressing and holding **PRESET** for 2 seconds.*

Turning Subwoofer ON/OFF

When the subwoofer is on, you can adjust the subwoofer output level (refer to page 17).

OFF ↔ ON (Initial setting)

Setting the Subwoofer System

When the subwoofer is on, you can select either SYS 1 or SYS 2 for the desired subwoofer effect.

1 (Initial setting) ↔ 2

SYS 1 : Subwoofer level changes according to the main volume setting.

SYS 2 : Subwoofer level change is different from the main volume setting. For example, even at low volume settings, the subwoofer is still audible.

Setting the Subwoofer Phase

NORMAL (Initial setting) ↔ REVERSE

The subwoofer output phase is toggled SUBWOOFER NORMAL (0°) or SUBWOOFER REVERSE (180°). To adjust the level, turn the **Double Action encoder**.

Setting the Subwoofer Channel (SUBW CHANNEL)

You can set the subwoofer output to stereo or monaural. Make sure to set the correct output for your subwoofer type.

STEREO (Initial setting) ↔ MONO

STEREO: Subwoofer stereo (L/R) output

MONO: Subwoofer monaural output

Setting the Response Slope for the High Range Speaker (TW Setup)

Depending on the response characteristics of the speaker, care should be taken when setting the response slope of the high range speaker to FLAT in 2.2ch (3WAY) mode (see "Adjusting the Crossover Settings (X-OVER)" on page 25), as speaker damage may result.

MAKER'S (Initial setting) ↔ USER'S

MAKER'S: As protection from possible speaker damage, FLAT cannot be set for the response slope of the high range speaker in 2.2ch (3WAY) mode.

USER'S: The FLAT setting is possible in 2.2ch (3WAY) mode.

Setting EQ mode

This setting gives you a choice of 5-band parametric, or 7-band graphic equalizer.

PARAMETRIC (Initial setting) ↔ GRAPHIC

Setting the Filter type

NORMAL (Initial setting) ↔ INDIVIDUAL

NORMAL (L=R): Left and right speakers are adjusted equally.

INDIVIDUAL (L/R): Left and right speakers are individually adjusted.

Setting the Time Correction Unit (TCR Parameter)

You can change the unit, (cm or inch) of time correction.

CM (Initial setting) ↔ INCH

Setting the MX Level

MX (Media Xpander) makes vocals or instruments sound distinct regardless of the music source. The FM radio, CD, USB memory and iPhone/iPod, will be able to reproduce the music clearly even in cars with a lot of road noise.

Changing the source to which you want to apply Media Xpander.

FM (MX level 1 to 3):
The medium to high frequencies become clearer, and produces well balanced sound at all frequencies.

CD (MX level 1 to 3):
CD mode processes a large amount of data during playback. MX takes advantage of this large data quantity to reproduce a more clear, clean output.

CMPM/SAT (MX level 1 to 3):
This corrects information that was lost at the time of compression. This reproduces a well-balanced sound close to the original.

DVD (MX level 1 to 3):
A DVD or Video CD contains a large quantity of data such as music clip. MX uses this data to reproduce the sound accurately.

AUX (MX level 1):
Choose the MX mode (CMPM, MOVIE, or MUSIC) that corresponds to the media connected.

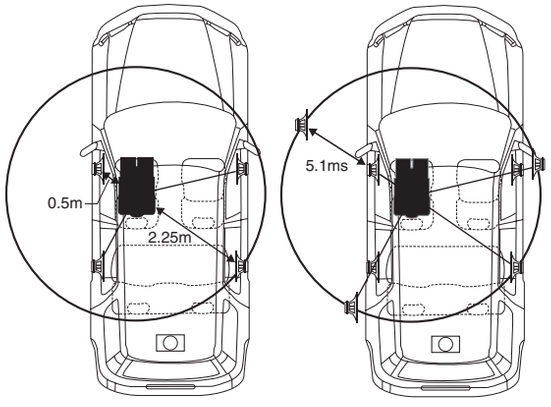
- *The initial setting of MX is different depending on the source.*
- *Each music source, such as FM radio, CD, and MP3/WMA/AAC can have its own MX setting.*
- *On discs with both MP3/WMA/AAC and CD-DA, when the source changes from "MP3/WMA/AAC to CD-DA" or "CD-DA to MP3/WMA/AAC", MX-mode switching may delay playback slightly.*
- *Setting to Non Effect sets MX mode of each music source to OFF.*
- *This function is inoperable when DEFEAT is set to ON.*
- *There is no MX mode for AM radio.*
- *If an audio processor with the MX function (PXA-H701, etc.) is connected, its own MX processing is applied to the music source. Since the processor MX settings may not match the head unit, the audio processor needs to be adjusted. For details, refer to the Owner's Manual of the audio processor.*
- *"CMPM" is applied for MP3/WMA/AAC and iPhone/iPod.*

About Time Correction

The distance between the listener and the speakers in a car vary widely due to the complex speaker placement. This difference in the distances from the speakers to the listener creates a shift in the sounds image and frequency characteristics. This is caused by the time delay between the sound reaching the listener's right versus the left ear.
To correct this, this unit is able to delay the audio signal to the speakers closest to the listener. This effectively creates a perception of increased distance for those speakers. The listener can be placed at an equal distance between the left and right speakers for optimum staging.
The adjustment will be made for each speaker in 3.4cm steps.

Example 1. Listening Position: Front Left Seat

Adjust the time correction level of the front left speaker to a high value and the rear right to zero or a low value.



The sound is not balanced because the distance between the listening position and the various speakers is different.
The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8").
Here we calculate the time correction value for the front left speaker in the diagram on the above.

Conditions:
Farthest Speaker – listening position : 2.25 m (88-9/16")
Front left speaker – listening position : 0.5 m (19-11/16")
Calculation: L = 2.25 m – 0.5 m = 1.75 m (68-7/8")
Time correction = 1.75 ÷ 343*[1] × 1,000 = 5.1 (ms)

*[1] *Speed of sound: 343 m/s (765 mph) at 20°C*

In other words, giving the front left speaker a time correction value of 5.1 ms makes it seem as if its distance from the listener is the same as the distance to the farthest speaker.

Time correction eliminates the differences in the time required for the sound to reach the listening position.
The time of the front left speaker is corrected by 5.1 ms so that its sound reaches the listening position at the same time as the sound of other speakers.

Example 2. Listening Position: All Seats

Adjust the time correction level of each speaker to almost the same level.

1 Sit in the listening position (driver's seat, etc.) and measure the distance (in meters) between your head and the various speakers.

2 Calculate the difference between the distance correction value to the farthest speaker and the other speakers.

L = (distance to farthest speaker) – (distance to other speakers)

These values are the time correction values for the different speakers. Setting these values to make each sound reach the listening position at the same time as the sound of other speakers.

Time Correction Value List

Delay Number	Time Difference (ms)	Distance (cm)	Distance (inch)	Delay Number	Time Difference (ms)	Distance (cm)	Distance (inch)
0	0.0	0.0	0.0	51	5.1	173.4	68.3
1	0.1	3.4	1.3	52	5.2	176.8	69.7
2	0.2	6.8	2.7	53	5.3	180.2	71.0
3	0.3	10.2	4.0	54	5.4	183.6	72.4
4	0.4	13.6	5.4	55	5.5	187.0	73.7
5	0.5	17.0	6.7	56	5.6	190.4	75.0
6	0.6	20.4	8.0	57	5.7	193.8	76.4
7	0.7	23.8	9.4	58	5.8	197.2	77.7
8	0.8	27.2	10.7	59	5.9	200.6	79.1
9	0.9	30.6	12.1	60	6.0	204.0	80.4
10	1.0	34.0	13.4	61	6.1	207.4	81.7
11	1.1	37.4	14.7	62	6.2	210.8	83.1
12	1.2	40.8	16.1	63	6.3	214.2	84.4
13	1.3	44.2	17.4	64	6.4	217.6	85.8
14	1.4	47.6	18.8	65	6.5	221.0	87.1
15	1.5	51.0	20.1	66	6.6	224.4	88.4
16	1.6	54.4	21.4	67	6.7	227.8	89.8
17	1.7	57.8	22.8	68	6.8	231.2	91.1
18	1.8	61.2	24.1	69	6.9	234.6	92.5
19	1.9	64.6	25.5	70	7.0	238.0	93.8
20	2.0	68.0	26.8	71	7.1	241.4	95.1
21	2.1	71.4	28.1	72	7.2	244.8	96.5
22	2.2	74.8	29.5	73	7.3	248.2	97.8
23	2.3	78.2	30.8	74	7.4	251.6	99.2
24	2.4	81.6	32.2	75	7.5	255.0	100.5
25	2.5	85.0	33.5	76	7.6	258.4	101.8
26	2.6	88.4	34.8	77	7.7	261.8	103.2
27	2.7	91.8	36.2	78	7.8	265.2	104.5
28	2.8	95.2	37.5	79	7.9	268.6	105.9
29	2.9	98.6	38.9	80	8.0	272.0	107.2
30	3.0	102.0	40.2	81	8.1	275.4	108.5
31	3.1	105.4	41.5	82	8.2	278.8	109.9
32	3.2	108.8	42.9	83	8.3	282.2	111.2
33	3.3	112.2	44.2	84	8.4	285.6	112.6
34	3.4	115.6	45.6	85	8.5	289.0	113.9
35	3.5	119.0	46.9	86	8.6	292.4	115.2
36	3.6	122.4	48.2	87	8.7	295.8	116.6
37	3.7	125.8	49.6	88	8.8	299.2	117.9
38	3.8	129.2	50.9	89	8.9	302.6	119.3
39	3.9	132.6	52.3	90	9.0	306.0	120.6
40	4.0	136.0	53.6	91	9.1	309.4	121.9
41	4.1	139.4	54.9	92	9.2	312.8	123.3
42	4.2	142.8	56.3	93	9.3	316.2	124.6
43	4.3	146.2	57.6	94	9.4	319.6	126.0
44	4.4	149.6	59.0	95	9.5	323.0	127.3
45	4.5	153.0	60.3	96	9.6	326.4	128.6
46	4.6	156.4	61.6	97	9.7	329.8	130.0
47	4.7	159.8	63.0	98	9.8	333.2	131.3
48	4.8	163.2	64.3	99	9.9	336.6	132.7
49	4.9	166.6	65.7				
50	5.0	170.0	67.0				

About the Crossover

Crossover (X-OVER):

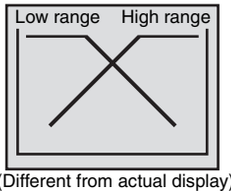
This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.

The crossover adjusts the HPF (high pass filter) or LPF (low pass filter) of each band, and also the slope (how fast the filter rolls off the highs or lows).

Adjustments should be made according to the reproduction characteristics of the speakers. Depending on the speakers, a passive network may not be necessary. If you are unsure about this point, please consult your authorized Alpine dealer.

4.2ch (FRONT/REAR/SUBW.) mode

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/ oct.	0 to –12 dB
Rear high range speaker	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 to –12 dB
Front high range speaker	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 to –12 dB

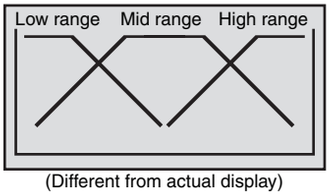


(Different from actual display)

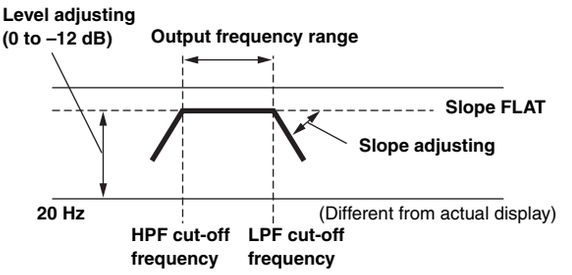
2.2ch (3WAY) mode

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	0 to –12 dB
Mid range speaker	20 Hz - 200 Hz	20 Hz - 20 kHz	FLAT, 6, 12, 18, 24 dB/oct.	FLAT, 6, 12, 18, 24 dB/oct.	0 to –12 dB
High range speaker	1 kHz - 20 kHz, (20 Hz ~ 20 kHz)*	----	FLAT* 6, 12, 18, 24 dB/oct.	----	0 to –12 dB

* *Only when selecting USER'S in "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 26).*



(Different from actual display)



- *HPF (high pass filter): Cuts the lower frequencies and allows the higher frequencies to pass.*
- *LPF (low pass filter): Cuts the higher frequencies and allows the lower frequencies to pass.*
- *Slope: The level change (in dB) for a frequency change of one octave.*
- *The higher the slope value, the steeper the slope becomes.*
- *Adjust the slope to FLAT to bypass the HP or LP filters.*
- *Do not use a tweeter without the HPF on or set to a low frequency, as it may cause damage to the speaker due to the low frequency content.*
- *You cannot adjust the crossover frequency higher than the HPF or lower than the LPF.*
- *Adjustment should be made according to the recommended crossover frequency of the connected speakers. Determine the recommended crossover frequency of the speakers. Adjusting to a frequency range outside that recommended may cause damage to the speakers.*
  For the recommended crossover frequencies of Alpine speakers, refer to the respective Owner's Manual.
  We are not responsible for damage or malfunction of speakers caused by using the crossover outside the recommended value.

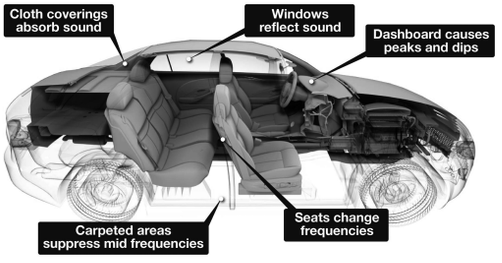
About IMPRINT

VISION VS. REALITY

All good music starts as an artist's vision. After countless hours of rehearsing, recording and mixing, that vision is ready for us to hear on discs, radio and other media. But do we hear it as the artist created it? Unfortunately, the reality is that we are almost never able to listen to it in the exact way the artist intended. Especially when we are listening in a car.

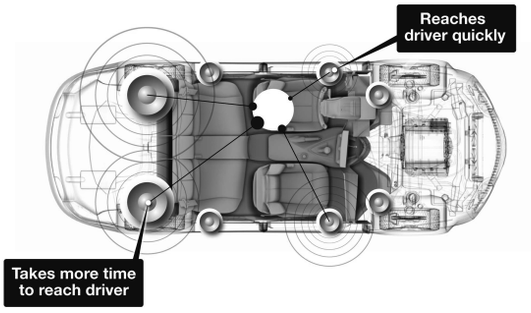
CARS ARE TERRIBLE LISTENING SPACES

Car interiors are full of materials that obstruct and degrade sound quality. For example, windows amplify and reflect high frequencies. Seat and dashboard coverings change certain frequencies. Carpets absorb and suppress mid frequencies. Graphic and parametric EQs are only partial remedies for these problems. In addition, the speakers are not located at equal distances from listeners, creating an unbalanced, uncentred sound stage. Time correction can help fix this, but only for one listening position.


Cloth coverings absorb sound
Windows reflect sound
Dashboard causes peaks and dips
Carpeted areas suppress mid frequencies
Seats change frequencies

INTRODUCING IMPRINT

These acoustical problems are so severe that no correction system has been able to overcome them. Until now, with the introduction of IMPRINT, Alpine provides a hardware/software combination that not only solves these problems, it actually improves the sound stage, tonal balance and definition - and does it automatically, in a matter of minutes!



HOW IMPRINT IS DIFFERENT

IMPRINT using MultEQ is superior to other equalisation systems in five ways.

- It is the only system that measures the entire listening area, capturing time domain information from each listening location and applying a proprietary method for processing it to represent all seat locations. This gives the people in each seat the optimal listening experience.
- It corrects both time and frequency problems, for an improved soundstage and smoother, more natural sound.
- It uses dynamic frequency allocation to apply hundreds of points of correction to those areas where the sound problems are greatest.
- It determines optimized blending points for low frequency crossovers.
- It provides, in minutes, vehicle sound tuning that generally takes skilled professionals days to accomplish.

Information

In Case of Difficulty

If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

Basic

No function or display.

- Vehicle's ignition is off.
  - If connected following instructions, the unit will not operate with the vehicle's ignition off.
- Improper power lead (Red) and battery lead (Yellow) connections.
  - Check power lead and battery lead connections.
- Blown fuse.
  - Check the fuse of the unit; replace with the proper value if necessary.
- Internal micro-computer malfunctioned due to interference noise etc.
  - Press the RESET switch with a ball-point pen or other pointed article.

Radio

Unable to receive stations.

- No antenna or open connection in cable.
  - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.

- You are in a weak signal area.
  - Make sure the tuner is in the DX mode.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
  - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
- The antenna may not be the proper length.
  - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.

Broadcast is noisy.

- The antenna is not the proper length.
  - Extend the antenna fully; replace it if it is broken.
- The antenna is poorly grounded.
  - Make sure the antenna is grounded properly at its mounting location.

MP3/WMA/AAC

MP3, WMA or AAC is not played back.

- Writing error occurred. The MP3/WMA/AAC format is not compatible.
  - Make sure the MP3/WMA/AAC has been written in a supported format. Refer to "About MP3/WMA/AAC" (page 16), then rewrite in the format supported by this device.

Audio

The sound is not output from the speakers.

- Unit has no output signal of the internal amplifier.
  - POWER IC is switched to "ON" (page 21).

iPod

iPod does not play and no sound is output.

- The iPod has not been recognized.
  - Reset this unit and the iPod. Refer to "Initial System Start-Up" (page 6). To reset the iPod, refer to the Owner's Manual of the iPod.

Indication for iPod Mode

CURRENT ERROR

- Abnormal current is being drawn by the device connected to USB. An error message may be displayed if the device connected is not compatible or defective.
  - Attempt to connect another iPhone/iPod.

DEVICE ERROR

- An iPod that is not supported by the unit is connected.
  - Connect an iPod that is supported by the unit.

NO USB DEVICE

- An iPhone/iPod is not connected.
  - Make sure the iPhone/iPod is correctly connected and the cable is not excessively bent.

NO SONG

- There are no songs in the iPhone/iPod.
  - Download songs to the iPhone/iPod and connect to this unit.

NO SUPPORT

- Text information that is no supported on the unit has been input.
  - Use an iPhone/iPod in which text information is input that is supported on the unit.

ERROR-01

- Communication error
  - Turn the ignition key off, and then set to ON again.
  - Reset the iPod.
  - Verify in the display after reconnecting the iPhone/iPod to the Interface cable for iPod and to the USB cable.

ERROR-02

- Caused by the iPhone/iPod Software Version not being compatible with this unit.
  - Update the iPhone/iPod Software Version to be compatible with this unit.

ERROR-03

- The iPhone/iPod is not verified.
  - Change another iPhone/iPod.

Indication for USB memory

CURRENT ERROR

- Abnormal current is being drawn by the device connected to USB. An error message may be displayed if the device connected is not compatible. The USB Flash Memory device may be defective.
  - Attempt to connect another USB memory.

DEVICE ERROR

- A USB device that is not supported by the unit is connected.
  - Connect a USB device that is supported by the unit.

NO USB DEVICE

- A USB memory is not connected.
  - Make sure the USB memory device is correctly connected and the cable is not excessively bent.

NO SONG

- No song (file) is stored in the USB memory.
  - Connect the USB memory device after storing songs (files).

UNSUPORT

- A sampling rate/bit rate not supported by the unit is used.
  - Use a sampling rate/bit rate that is supported by the unit.

PROTECT

- A copy-protected WMA file was played back.
  - You can only play back non-copy-protected files.

NO SUPPORT

- Text information that is not recognizable by the unit has been input.
  - Use a USB memory device with input text information that is supported by the unit.

Indication for Portable audio player Mode

CURRENT ERROR

- Abnormal current is being drawn by the device connected to USB. An error message may be displayed if the device connected is not compatible. The USB Flash Memory device may be defective.
  - Attempt to connect another Portable audio player.

DEVICE ERROR

- A Portable audio player that is not supported by the unit is connected.
  - Attempt to connect another Portable audio player.

NO USB DEVICE

- A Portable audio player is not connected.
  - Make sure the Portable audio player is correctly connected and the cable is not excessively bent.

NO SONG

- There are no songs in the Portable audio player.
  - Download songs to the Portable audio player and connect to this unit.

NO SUPPORT

- Text information that is no supported on the unit has been input.
  - Use a Portable audio player in which text information is input that is supported on the unit.

ERROR-01

- Communication error
  - Turn the ignition key off, and then set to ON again.
  - Verify in the display after reconnecting the Portable audio player to the connection cable.

ERROR-02

- Caused by the Software Version not being compatible with this unit.
  - Update the Portable audio player Software Version.

ERROR-03

- The Portable audio player is not verified.
  - Change another Portable audio player.

Indication for CD Changer

HI-TEMP

- Protective circuit is activated due to high temperature.
  - The indication will disappear when the temperature returns to normal operating range.

ERROR-01

- Malfunction in the CD Changer.
  - Consult your Alpine dealer. Press the magazine eject button and pull out the magazine.
    Check the indication. Insert the magazine again.
    If the magazine cannot be pulled out, consult your Alpine dealer.
- Magazine ejection not possible.
  - Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.

ERROR-02

- A disc is left inside the CD Changer.
  - Press the eject button to activate the eject function. When the CD Changer finishes the eject function, insert an empty CD magazine into the CD Changer to receive the disc left inside the CD Changer.

NO MAGAZINE

- No magazine is loaded into the CD Changer.
  - Insert a magazine.

NO DISC

- No indicated disc.
  - Choose another disc.

Specifications

FM TUNER SECTION

Tuning Range	87.5-108.0 MHz
Mono Usable Sensitivity	9.3 dBf (0.8µV/75 ohms)
50 dB Quieting Sensitivity	13.5 dBf (1.3µV/73 ohms)
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

AM TUNER SECTION

Tuning Range	531-1,602 kHz
Sensitivity (IEC Standard)	22.5 µV/27dB

USB SECTION

USB requirements	USB 1.1/2.0
Max. Power Consumption	500mA
USB Class	Mass Storage
File System	FAT 12/16/32
MP3 Decoding	MPEG-1/2 AUDIO Layer-3
WMA Decoding	Windows Media™ Audio
AAC Decoding	AAC-LC format ".m4a" file
Number of Channels	2-Channel (Stereo)
Frequency Response*	5-20,000 Hz (±1 dB)
Total Harmonic Distortion	0.008% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	>105 dB
Channel Separation	85 dB (at 1 kHz)

* Frequency response may differ depending on the encoder software/bit rate.

GENERAL

Power Requirement	14.4 V DC (11-16 V allowable)
Maximum Power Output	45 W × 4
Maximum Pre-Output Voltage	2 V/10 k ohms
Bass	±14 dB at 100 Hz
Treble	±14 dB at 10 kHz
Weight	1.0 kg (2 lbs. 3 oz)

CHASSIS SIZE

Width	178 mm (7")
Height	50 mm (2")
Depth	156 mm (6-1/8")

NOSEPIECE SIZE

Width	170 mm (6-3/4")
Height	46 mm (1-13/16")
Depth	28 mm (1-1/8")

- *Due to continuous product improvement, specifications and design are subject to change without notice.*

Installation and Connections

Before installing or connecting the unit, please read the following and pages 3 and 4 of this manual thoroughly for proper use.

⚠ Warning

MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT SPLICE INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

KEEP SMALL OBJECTS SUCH AS BOLTS OR SCREWS OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR SHIFT LEVER.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.

Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, shift lever, brake pedals, etc. can be extremely hazardous.

⚠ Caution

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

Precautions

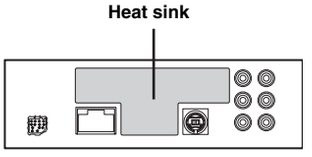
- Be sure to disconnect the cable from the (–) battery post before installing your iDA-X303. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the colour coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the iDA-X303 to the fuse box, make sure the fuse for the intended circuit of the iDA-X303 has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your Alpine dealer.
- The iDA-X303 uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized Alpine dealer for assistance.
- Be sure to connect the speaker (–) leads to the speaker (–) terminal. Never connect left and right channel speaker cables to each other or to the vehicle body.

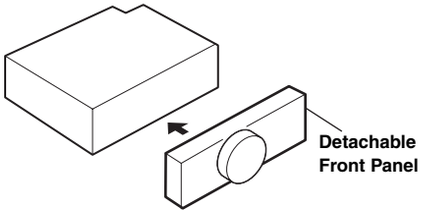
IMPORTANT Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number or the engraved serial number is located on the bottom of the unit.	SERIAL NUMBER: _____ INSTALLATION DATE: _____ INSTALLATION TECHNICIAN: _____ PLACE OF PURCHASE: _____

Installation

Caution

Do not block the unit's heat sink, thus preventing air circulation. If blocked, heat will accumulate inside the unit and may cause a fire.

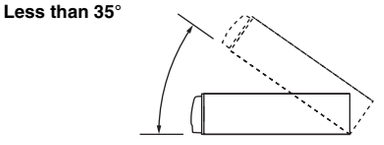




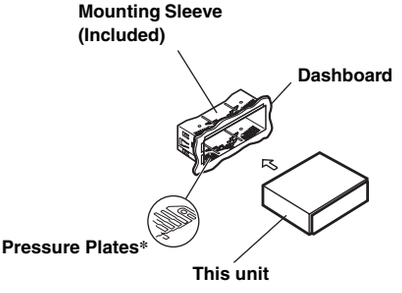
Caution

When you install this unit in your car, do not remove the detachable front panel.
If the detachable front panel is removed during installation, you might press too hard and warp the metal plate that holds it in place.

- *The main unit must be mounted within 35 degrees of the horizontal plane, back to front.*



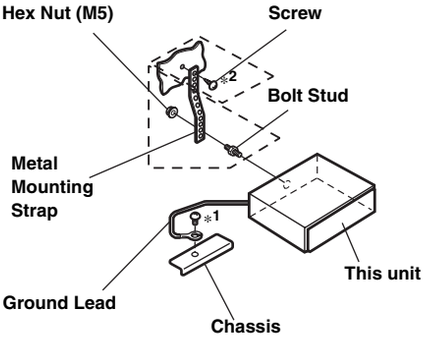
1



* *If the installed mounting sleeve is loose in the dashboard, the pressure plates may be bent slightly to remedy the problem.*

Remove mounting sleeve from the main unit (see "Removal" on page 34).

2



Reinforce the head unit with the metal mounting strap (not supplied). Secure the ground lead of the unit to a clean metal spot using a screw (*1) already attached to the vehicle's chassis.

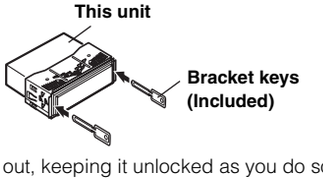
- *For the screw marked "*2", use an appropriate screw for the chosen mounting location.*

Connect each input lead coming from an amplifier or equalizer to the corresponding output lead coming from the left rear of the iDA-X303. Connect all other leads of the iDA-X303 according to details described in the CONNECTIONS section.

3 **Slide the iDA-X303 into the dashboard until it clicks. This ensures that the unit is properly locked and will not accidentally come out from the dashboard. Install the detachable front panel.**

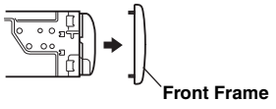
Removal

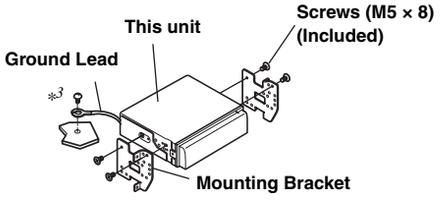
1. Remove the detachable front panel.
2. Insert the bracket keys into the unit, along the guides on either side. The unit can now be removed from the mounting sleeve.



3. Pull the unit out, keeping it unlocked as you do so.

<JAPANESE CAR>

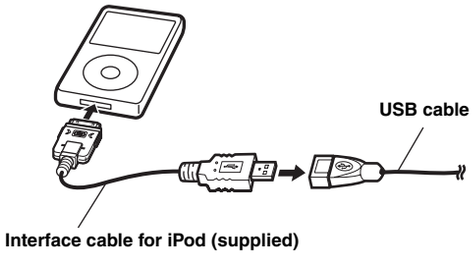




- *Secure the ground lead of the unit to a clean metal spot using a screw (*[3]) already attached to the vehicle's chassis.*

iPhone/iPod Connection (sold separately)

Connect USB cable to an iPhone/iPod with Interface cable for iPod.



Remove the iPhone/iPod

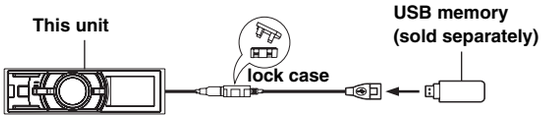
Remove the iPhone/iPod from Interface cable for iPod.

- *Remove the iPhone/iPod after the unit has been changed to a source other than the USB IPOD. If the iPhone/iPod is removed while playing, data may be lost.*
- *If sound is not output or the iPhone/iPod is not recognized even when the iPhone/iPod is connected, remove the iPhone/iPod once, then connect it again, or reset the iPod.*
- *Do not leave the iPhone/iPod in a vehicle for a long time. Heat and humidity may damage the iPhone/iPod and you may not be able to play it again.*

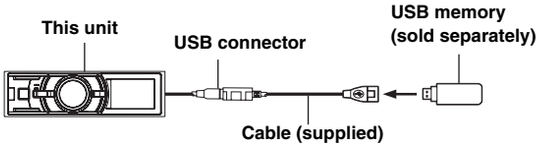
USB memory Connection (sold separately)

Connect USB memory

1. Connect the USB cable to the USB connector of the unit, and then secure the connection using the lock case supplied with USB cable as shown below.

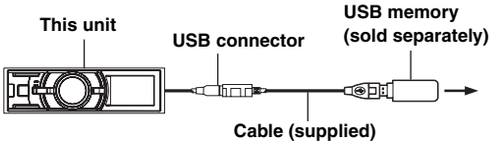


2. Connect USB memory to USB cable.



Remove USB memory

Pull out USB memory squarely from the USB cable.



- *When removing USB memory, pull it out straight.*
- *If sound is not output or USB memory is not recognized even when USB memory is connected, remove USB memory once, then connect it again.*
- *Change to a source other than the USB memory mode, then remove the USB memory. If the USB memory is removed in the USB memory mode, data may be damaged.*
- *Route the USB cable away from other cables.*

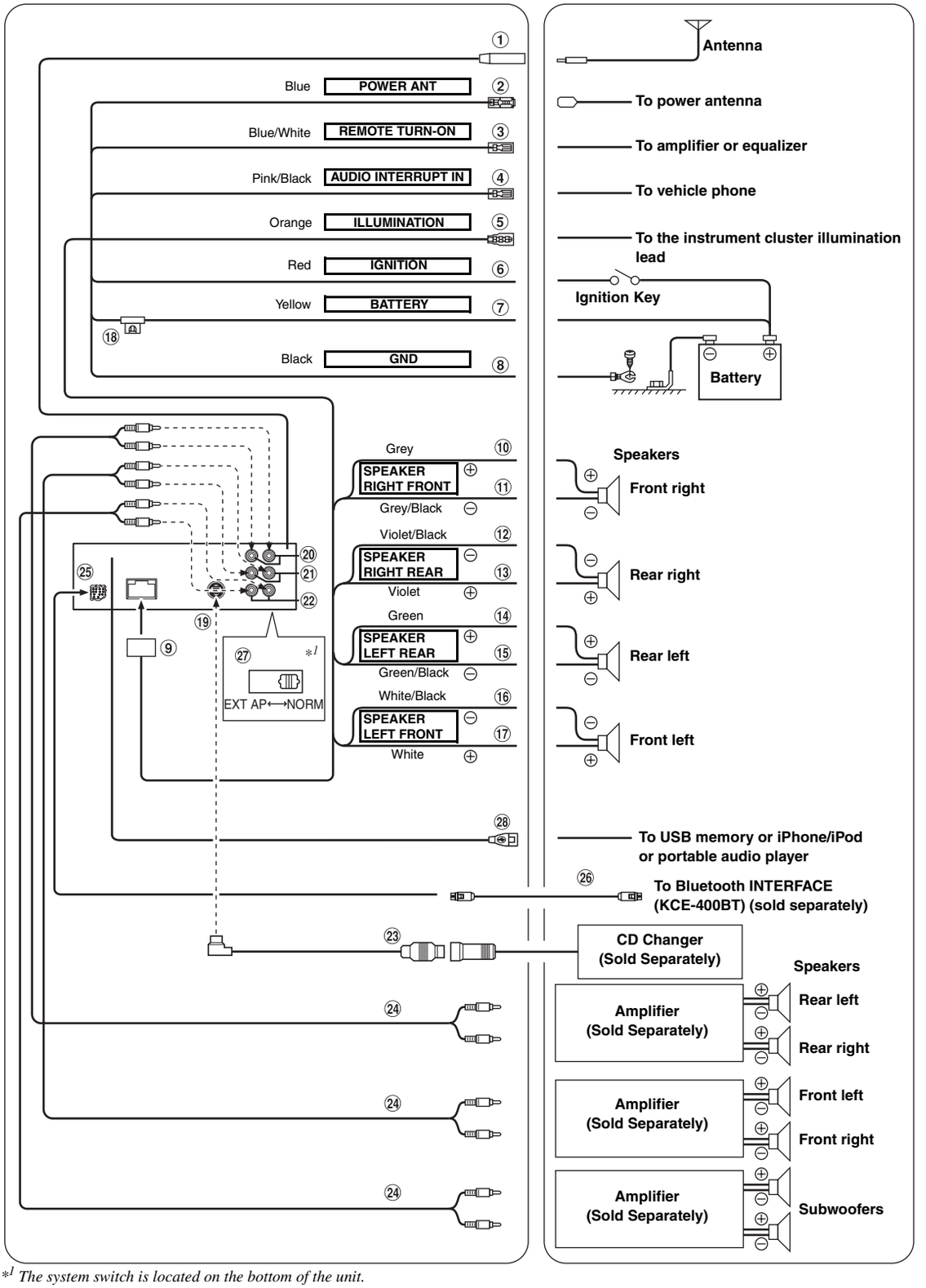
Portable Audio Player Connection (sold separately)

Connecting a Portable audio player

Connect the cable supplied with a Portable audio player to the USB cable.
Disconnect the Portable audio player.
Disconnect the cable supplied with the Portable audio player from the USB cable.

- *Refer also to the Owner's Manual of the Portable audio player.*

Connections



*1 *The system switch is located on the bottom of the unit.*

① **Antenna Receptacle**

② **Power Antenna Lead (Blue)**
Connect this lead to the +B terminal of your power antenna, if applicable.

- *This lead should be used only for controlling the vehicle's power antenna. Do not use this lead to turn on an amplifier, or a signal processor, etc.*

③ **Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor.

④ **Audio Interrupt In Lead (Pink/Black)**

⑤ **Illumination Lead (Orange)**
This lead may be connected to the vehicle's instrument cluster illumination lead. This will allow the backlighting of the iDA-X303 to dim whenever the vehicle's lights are turned on.

⑥ **Switched Power Lead (Ignition) (Red)**
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+)12V only when the ignition is turned on or in the accessory position.

⑦ **Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.

⑧ **Ground Lead (Black)**
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

⑨ **Power Supply Connector**

⑩ **Right Front (+) Speaker Output Lead (Grey)**

⑪ **Right Front (–) Speaker Output Lead (Grey/Black)**

⑫ **Right Rear (–) Speaker Output Lead (Violet/Black)**

⑬ **Right Rear (+) Speaker Output Lead (Violet)**

⑭ **Left Rear (+) Speaker Output Lead (Green)**

⑮ **Left Rear (–) Speaker Output Lead (Green/Black)**

⑯ **Left Front (–) Speaker Output Lead (White/Black)**

⑰ **Left Front (+) Speaker Output Lead (White)**

⑱ **Fuse Holder (10A)**

⑲ **Ai-NET Connector**
Connect this to the output or input connector of another device (CD Changer, Equalizer, etc.) equipped with Ai-NET.

- *Be sure to set "Setting the Connected Head Unit (MODEL SETUP)" to "CD CHG", when the DHA-S690 is connected.*
- *Interface adapter for iPod (KCA-420i) is not recommended for use with this product.*
- *You can input TV/video sound by connecting an optional Ai-NET/ RCA Interface cable (KCA-121B) to this component.*

⑳ **Rear Output/Input RCA Connectors**
It can be used as Rear Output or Input RCA Connectors. RED is right and WHITE is left.

㉑ **Front Output/Input RCA Connectors**
It can be used as Front Output or Input RCA Connectors. RED is right and WHITE is left.

㉒ **Subwoofer Output RCA Connectors**
RED is right and WHITE is left.

㉓ **Ai-NET Cable (Included with CD Changer)**

㉔ **RCA Extension Cable (sold separately)**

㉕ **Bluetooth interface Connector**
Connect this to an optional Bluetooth INTERFACE (KCE-400BT). To use a hands-free mobile phone, an optional Bluetooth INTERFACE (KCE-400BT) connection is required. For details on connection, refer to the Owner's Manual of the Bluetooth INTERFACE (KCE-400BT).
You can also connect this to an external device (such as a portable player) by using Conversion cable (KCE-237B) (sold separately) for building up the AUX IN.

* *Refer to "Setting the AUX+ Mode" (page 21).*

AUX+ ON : When the external device is connected.
AUX+ OFF : When set to OFF, AUX+ source cannot be selected.

㉖ **KCE-400BT Connection Cable (Included with KCE-400BT)**

㉗ **System Switch**
When connecting a processor or divider using Ai-NET, place this switch in the EXT AP position. When no device is connected, leave the switch in the NORM position.
When switched to NORM, the RCA Connectors ⑳ and ㉑ can be used as Output RCA Connectors.
When switched to EXT AP, the RCA Connectors ⑳ and ㉑ can be used as Input RCA Connectors.

- *Be sure to turn the power off to the unit before changing the switch position.*

㉘ **USB Connector**
Connect this to an USB memory or to an iPhone/iPod or to a portable audio player. To use an iPhone/iPod, Interface cable for iPod connection is required.

- *Use the supplied USB cable. If a USB cable other than the supplied is used, correct performance cannot be guaranteed.*
- *Route the USB cable away from other cables.*

To prevent external noise from entering the audio system.
- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

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ALPINE iDA-X303 68-14470Z02-A (CT)

一般設定

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操作說明

警告

⚠警告

此標誌表示重要說明。如果未能注意可能會造成人員嚴重受傷或死亡。

不要使用會使您駕駛時分心的任何功能。
任何影響注意力的機器功能的操作都要等完全停住汽車之後才作。要使用這些操作功能時，一定請先把車輛停放在安全地帶。否則，將可能導致意外事故。

駕駛中必須保持音量水平使還能聽到車外的噪聲。
如果音量太大造成緊急車輛的警報聲和道路警告訊號（火車交叉口等）聽不清是危險的，並可能導致意外事故。另外，在汽車里用大音量收聽還可能導致聽力遭受傷害。

駕駛中盡可能少看顯示器。
看顯示器，可能分散駕駛員注視汽車前方的注意力而導致意外事故。

不要分解或改造。
否則，可能導致意外事故、火災或觸電。

僅用於 12 伏負極 （－）接地的汽車。
（如果您無法確定，請向您的代理商確認。）否則可能會造成火災或電擊。

請將小物體（如螺栓或螺釘）放置在兒童不易觸及的地方。
吞下小物體會引起嚴重的傷害。如果誤吞，請立即請醫生診治。

更換保險絲時須選用規定安培值的保險絲。
否則可能引起火災或觸電。

不要堵塞住通風孔或散熱板。
否則，可能導致內部積熱並可能導致火災。

本產品請應用於 12V 型式的汽車。
應用在別型汽車，可能導致火災、觸電或其它傷害。

⚠注意

此標誌表示重要說明。如果未能注意可能會造成人員受傷或設備損壞。

發生問題時，請立即停止使用。
否則，可能使個人受傷害或損壞了產品。請將本產品送回到指定的 Alpine 代銷店或附近的 Alpine 服務中心修理。

⚠使用須知

產品清潔
請使用乾的軟布定期清潔本產品。若污物較難清除，請僅用水將軟布浸濕。其他任何溶劑都可能溶解油漆或損壞塑料。

溫度
開啓本機之前，請確認汽車中的溫度在 +60°C 和 –10°C 之間。

維修
如果您遇到問題，請勿自行修理。請將本產品送回到 Alpine 經銷商或附近的 Alpine 服務中心修理。

安裝位置
本機不可安裝於下列任何場所：

- 陽光直射和熱源附近
- 濕度很高的地方和水源附近
- 多塵場所
- 劇烈振動的場所

保護 USB 連接器

- 只有 USB 記憶體、iPhone/iPod 機型或隨身音樂播放器能夠連接至本機的 USB 連接器。使用其他 USB 產品無法保證正常使用。不支援 USB 集線器。
- 如果使用 USB 連接器，請確定使用 USB 延長電纜（附帶）來連接本機。不支援 USB 集線器。
- 視所連接的記憶體類型而定，本機可能無法運作或不支援部份功能。
- 本機可播放的音訊檔案格式爲 MP3/WMA/AAC。
- 可以顯示歌手 / 歌曲名稱等，然而，可能無法正確顯示某些字元。

⚠注意

對於丟失資料等，即使是在使用本產品時發生，Alpine 概不負責。

有關使用 USB 記憶體

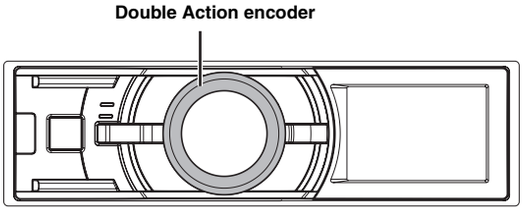
- 爲防止故障或損壞，請注意下列各點。
  請通讀 USB 記憶體的用戶手冊。
  請勿用手或金屬碰觸端子。
  請勿讓 USB 記憶體受到過度震動。
  請勿彎曲、摔落、拆解、改裝本機，或讓本機浸泡在水裡。
- 避免在下列地點使用或存放本機：
  在陽光直射下的車內或高溫場所。
  濕度高或存在腐蝕性物質的場所。
- 將 USB 記憶體安裝在不會妨礙駕駛員操作的位置。
- USB 記憶體可能無法在高溫或低溫的地方正確運作。
- 只使用經認可的 USB 記憶體。請注意，即使是經認可的 USB 記憶體，仍有可能因類型或狀態不同而無法正確運作。
- 無法保證 USB 記憶體的功能。請根據協議條款使用 USB 記憶體。
- 視 USB 記憶體類型、記憶體狀態或編碼軟體的設定而定，本機可能無法正確播放或顯示。
- 防拷貝的檔案（使用某些類型的 DRM、數位權利管理）無法在本機上播放。具有 DRM 的 WMA 格式檔案或從 iTunes Store 購買的 AAC 格式檔案也包含在此限制中。
- USB 記憶體可能需要一些時間才能開始播放。如果 USB 記憶體內有除音訊以外的特殊檔案，則播放或搜尋檔案之前可能需要更長的時間。
- 本機可以播放 “mp3”、“wma”、“m4a” 副檔名。
- 請勿在非音訊資料檔案上加上以上副檔名。這種非音訊資料無法辨識。播放結果可能會包含能損壞揚聲器和 / 或放大器的噪音。
- 建議在個人電腦上備份重要的資料。
- 在播放過程中切勿移除USB裝置。將音源變更爲除USB以外的其他項，然後移除 USB 裝置，以防止損壞其記憶體。

有關使用隨身音樂播放器

- 本機可以經由USB介面控制隨身音樂播放器。可播放的音訊檔案格式爲 MP3 和 WMA。
- 隨身音樂播放器的功能無法保證。請根據協議條款使用隨身音樂播放器。請通讀隨身音樂播放器的用戶手冊。
- 避免在下列地點使用或存放本機：
  在陽光直射下的車內或高溫場所。
  濕度高或存在腐蝕性物質的場所。
- 將隨身音樂播放器安裝在不會妨礙駕駛員操作的位置。
- 隨身音樂播放器可能無法在高溫或低溫的地方正確運作。
- 視隨身音樂播放器類型、記憶體狀態或編碼軟體的設定而定，本機可能無法正確播放或顯示。
- 如果隨身音樂播放器具有 MSC/MTP 設定，請設定爲 MTP。
- 經由 USB 大量儲存方式儲存資料的隨身音樂播放器可能無法在本機上播放。
- 視隨身音樂播放器設定而定，可能支援 USB 大量儲存功能。關於設定，請參閱播放器的用戶手冊。
- 本機可以播放經由 Windows Media Player（7.1、8、9、9.1、9.2 版）同步的，然後傳送至播放器的 MP3/WMA 檔案。副檔名 “mp3” 或 “wma” 可以播放。
- 如果資料未經由 Windows Media Player 同步並以其他方式傳送，本機可能無法正確播放相關檔案。
- 本機支援 WMDRM10。
- 無法播放經防拷保護（版權保護）的檔案。
- 建議在個人電腦上備份重要的資料。
- 在播放過程中切勿移除USB裝置。將SOURCE變更爲除USB以外的其他項，然後移除 USB 裝置，以防止損壞其記憶體。

- *Windows Media 與 Windows 標誌是 Microsoft Corporation 在美國和 / 或其他國家的商標或註冊商標。*
- *iPod 是 Apple Inc. 在美國和其他國家的註冊商標。*
- *iPhone 是 Apple Inc. 的商標。*
- *“Made for iPod” 代表電子附件專爲連接 iPod 設計，並經開發者認證符合 Apple 性能標準。*
- *“Works with iPhone” 代表電子附件專爲連接 iPhone 設計，並經開發者認證符合 Apple 性能標準。*
- *對於本設備的操作或本設備是否遵守安全和法規標準，Apple 概不負責。*
- *Bluetooth 字標和標誌歸 Bluetooth SIG, Inc. 所有，並在 Alpine Electronics, Inc. 許可下使用此類標誌。其他商標和品牌名稱均歸各自所有人擁有。*
- *“MPEG Layer-3 音訊編碼技術經 Fraunhofer IIS 和 Thomson 授權”。*
- *“本產品僅供個人和非商業性使用，未經授權，不得用於任何商業性（即收益性）的即時廣播（如全球、衛星、有線和 / 或其他任何媒體）、在互聯網、局域網和 / 或其他網路上進行的廣播 / 串流，或者付費音訊 / 音訊點播等電子內容傳播系統中的廣播 / 串流。該領域的使用需單獨得到授權。詳情請訪問* ***http://www.mp3licensing.com*** *”*
- ***Audyssey MultEQ XT 是 Audyssey laboratories Inc. 的註冊商標。***

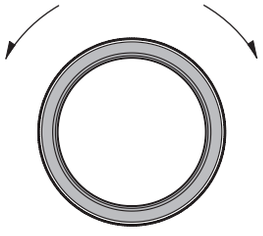
Double Action Encoder 操作



共有兩種操作 Double Action encoder 的方式。

一般操作

將 **Double Action encoder** 往左或往右轉。

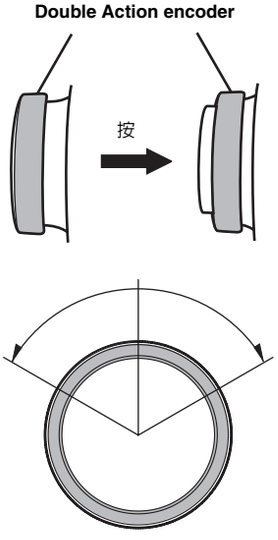


調整音量以及捲動瀏覽項目清單。

交替操作

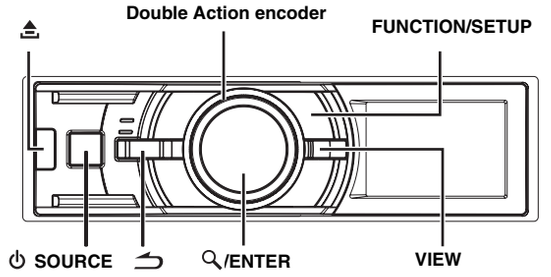
將 **Double Action encoder** 往左或往右轉。

當您放開 Double Action encoder 時，即可變更顯示。



視使用情況而定，您可以變更某項目或顯示。如果您按住 **Double Action encoder** 並向左或向右轉，您便可持續變更項目 / 顯示。

準備工作



附件清單

- 數字媒體接收機.....1
- 電源線.....1
- **USB** 電纜.....1
- **iPod** 用介面電纜.....1
- 安裝殼套.....1
- 攜帶盒.....1
- 托架鑰匙.....2
- 螺絲（**M5x8**）.....4
- 用戶手冊.....1 套

電源開啓和關閉

按⏻ **SOURCE** 開啓本機。

- *可按⏏（釋放）、**Double Action encoder** 和 **VIEW** 之外的其他任何按鈕開啓本機。如果連接 USB 記憶體/iPhone/iPod，也會自動開啓本機。*

按住⏻ **SOURCE** 至少 **2** 秒鐘可關閉本機。

- *第一次開啓電源時，音量會設在等級 12。*

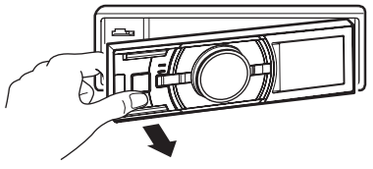
拆卸和安裝前面板

拆卸

1 關閉本機電源。

2 按左邊中間的⏏（釋放），直到前面板彈出。

3 握住前面板的左側並拉出。

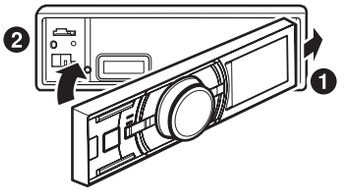


- *前面板在正常使用中可能變燙（特別是前面板背部的連接器端子）。這並不是故障。*
- *若要保護前面板，請將其放在附帶的便攜盒中。*

安裝

1 將前面板的右側插入主機。將前面板上的凹槽對準主機上的突出部分。

2 推入前面板的左側，直至其牢固地裝入主機。



- *安裝前面板前，請確保連接器端子上無污垢或灰塵，且前面板和主機之間無雜物。*
- *安裝前面板時請小心。注意應抓住面板的兩側，以避免誤壓按鈕。*

初始化系統啓動

在初次使用本機時，或者更換汽車電瓶等情況後，務必按一下 RESET 開關。

1 關閉本機電源。

2 按⏏（釋放）拆下前面板。

3 用原子筆或類似尖頭物件按一下 **RESET**。

調節音量

轉動 **Double Action encoder** 直到出現想要的聲音為止。

設定日曆

1 按住**FUNCTION/SETUP**至少**2**秒鐘啓動**SETUP**選擇模式。

2 轉動**Double Action encoder**以選擇**GENERAL**模式，然後按**/ENTER**。

BT*[1] ↔ AUDIO*[2] ↔ GENERAL ↔ DISPLAY ↔ IPOD ↔ BT

*[1] *只有在INT MUTE設爲OFF且設爲BT AUDIO之外的模式時顯示。*
*[2] *只有在連接外接音訊處理器時顯示。詳情請參閱外接音訊處理器的用戶手冊。*

3 轉動 **Double Action encoder** 以選擇 **CALENDAR ADJ**，然後按**/ENTER**。

4 轉動 **Double Action encoder** 以設定年。

5 按 **/ENTER**。

6 重複上述步驟 **4** 與 **5**，設定月與日。

7 按住 至少 **2** 秒鐘將返回正常模式。

- *在過程中按 返回先前的模式。*
- *如果 60 秒內未進行任何操作，本機會自動返回正常模式。*

設定時間

1 按住**FUNCTION/SETUP**至少**2**秒鐘啓動**SETUP**選擇模式。

2 轉動**Double Action encoder**以選擇**GENERAL**模式，然後按**/ENTER**。

BT*[1] ↔ AUDIO*[2] ↔ GENERAL ↔ DISPLAY ↔ IPOD ↔ BT

*[1] *只有在INT MUTE設爲OFF且設爲BT AUDIO之外的模式時顯示。*
*[2] *只有在連接外接音訊處理器時顯示。詳情請參閱外接音訊處理器的用戶手冊。*

3 轉動 **Double Action encoder** 以選擇 **CLK ADJ**，然後按**/ENTER**。

4 轉動 **Double Action encoder** 以設定小時。

5 按 **/ENTER**。

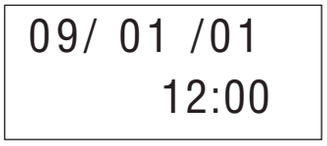
6 重複上述步驟 **4** 與 **5**，設定分鐘。

7 按住 至少 **2** 秒鐘將返回正常模式。

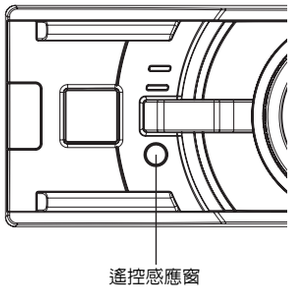
- *在過程中按 返回先前的模式。*
- *如果 60 秒內未進行任何操作，本機會自動返回正常模式。*

顯示日曆 / 時間

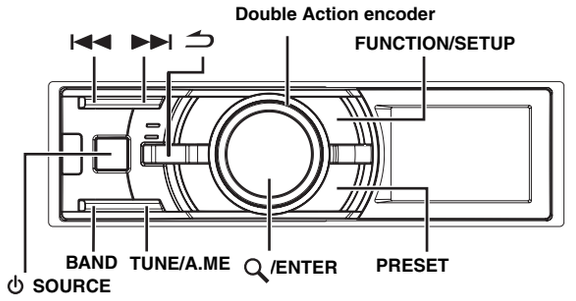
按 **VIEW**。
顯示日曆 / 時間。再按一次 VIEW 將返回正常模式。



可使用遙控器進行控制
將選購的遙控發射器對著遙控感應窗。



無線電



收聽無線電

1 按 ⏻ **SOURCE** 選擇 **TUNER** 模式。

2 反覆按 **BAND** 直至顯示您想要的無線電波段。

FM1 → FM2 → AM → FM1

3 按 **TUNE/A.ME** 選擇調諧模式。

DX SEEK （遠地模式）→ SEEK （本地模式）→ （空白）（手動模式）→ DX SEEK （遠地模式）

- *初始模式爲遠地模式。*

遠地模式：
訊號強和訊號弱的電台都被自動調入 （自動搜尋調諧）。

本地模式：
只自動調入訊號強的電台 （自動搜尋調諧）。

手動模式：
手動逐級調諧頻率 （手動調諧）。

4 按 ⏮ 或 ⏭ 調入想要的廣播電台。
按住 ⏮ 或 ⏭ 將連續改變頻率。

手動儲存預設電台

1 選擇無線電波段並調至您想要儲存至預設記憶體的廣播電台。

2 按 **PRESET**。
顯示預設畫面。

3 轉動 **Double Action encoder** 以選擇預設號碼。

4 按住 🔍 **/ENTER** 至少 **2** 秒鐘。
所選的電台被儲存。
顯示幕顯示記憶的波段、預設號碼和電台頻率。

- *預設記憶體中總計可儲存 18 個電台 （FM1、FM2、AM 波段各 6 個電台）。*
- *如果您在已存有電台的預設記憶體中儲存一個電台，當前電台將被清除並被新的電台替換。*

自動儲存預設電台

1 反覆按 **BAND** 直至顯示您想要的無線電波段。

2 按住 **TUNE/A.ME** 至少 **2** 秒鐘。
調諧器將自動搜尋並儲存所選波段中的 6 個訊號強的電台。它們將按訊號強度儲存在 1 至 6 中。
自動記憶完成後，調諧器將轉到儲存在預設位置 1 的電台上。

- *如果未儲存電台，則調諧器將返回自動記憶開始前您正在收聽的原始電台上。*

調諧至預設電台

1 反覆按 **BAND** 直至顯示您想要的波段。

2 按 **PRESET**。
顯示預設畫面。

3 轉動 **Double Action encoder** 以選擇廣播電台。

4 按 🔍 **/ENTER**。
顯示幕顯示所選電台的波段、預設號碼和頻率。

頻率搜尋功能

您可以藉由頻率來搜尋廣播電台。

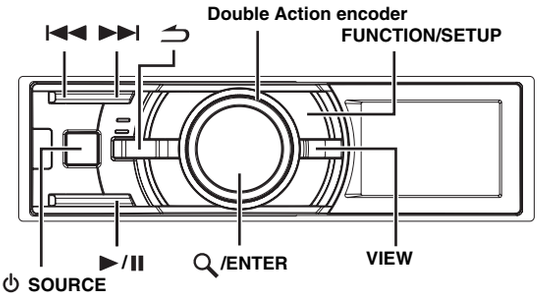
1 在無線電模式中按 🔍 **/ENTER** 以啓動頻率搜尋模式。

2 轉動 **Double Action encoder** 以選擇想要的頻率。

3 按 🔍 **/ENTER** 接收所選頻率。

- *在搜尋模式中按 ⮌ 以取消。或者，如果 10 秒內未進行任何操作，便會取消搜尋模式。*

iPhone/iPod（選購）



可以經由 iPod 用介面電纜（附帶）連接 iPhone/iPod 至本機。當經由此電纜連接本機時，iPod 上的控制器無法使用。

- *連接至本機時，也可以使用 iTouch 或 iPhone 等的因特網和電話功能。但是，使用這些功能會停止或暫停正在播放的歌曲，此時請勿操作本機，以免發生故障。*
- *如果將 iPhone 連接至本機，可以作爲 iPod 使用。如果要使用 iPhone 撥打免持電話，還需要選購的藍芽介面（KCE-400BT）。*

本機可使用的 **iPhone/iPod** 機型

- 本機可以與以下 iPhone/iPod 機型配合使用。

  iPhone 3G（版本 2.0）
  iPhone（版本 1.1.4）
  iPod touch（版本 1.0.4）
  iPod classic（版本 1.1.1）
  iPod nano（第 3 代）（版本 1.1）
  iPod nano（第 2 代）（版本 1.1.3）
  iPod with video（版本 1.2.3）
  iPod nano（第 1 代）（版本 1.3.1）

- 爲了明確識別 iPod 機型，請參閱 http://support.apple.com/kb/HT1353 中 Apple 公司的文件“Identifying iPod models”。
- 即使使用視訊相容電纜，本機仍不支援 iPhone/iPod 的視訊播放。
- 如果本機與版本早於 7.6 的 iTunes 配合使用，不保證正確功能和性能。

播放

1 按 ⏻ **SOURCE** 切換到 **USB IPOD** 模式。

2 按 ⏮ 或 ⏭ 選擇所需歌曲。

返回當前歌曲的起點：
按 ⏮。

使當前歌曲快退：
按住 ⏮。

跳到下一首歌曲的起點：
按 ⏭。

使當前歌曲快進：
按住 ⏭。

3 若要暫停播放，按 ►/II。
再次按 ►/II 將恢復播放。

- *當 iPhone/iPod 正在播放歌曲時，將其連接至本機，連接後將繼續播放。*
- *一個插曲或有聲書可能會有幾篇章節，可按 ⏮ 或 ⏭ 來變更章節。*

搜尋所需歌曲 / 標題

iPhone/iPod 可以容納數百首歌曲。透過將這些歌曲組織在播放清單中，本機可輕鬆進行歌曲搜尋。

您可以用播放清單 / 歌手 / 專輯 /Podcast/ 有聲書 / 音樂風格 / 作曲者 / 歌曲搜尋模式的個別等級以縮小搜尋範圍，如下表所示。

等級 1	等級 2	等級 3	等級 4
播放列表 (PLAYLISTS)	歌曲	—	—
歌手 (ARTISTS)*	專輯 *	歌曲	—
專輯 (ALBUMS)*	歌曲	—	—
PODCASTS	插曲	—	—
有聲書 (AUDIOBOOKS)	—	—	—
音樂風格 (GENRES)*	歌手 *	專輯 *	歌曲
作曲者 (COMPOSERS)*	專輯 *	歌曲	—
歌曲 (SONGS)	—	—	—

- *您可以選擇喜愛的搜尋模式。請參閱 “iPod 搜尋模式設定”（第 22 頁）。*

例如：按歌手姓名搜尋
以下舉例說明如何執行 ARTISTS 搜尋。儘管等級不同，其他搜尋模式也可以使用相同的操作。

1 按 **/ENTER** 啓動選單選擇模式。

2 轉動 **Double Action encoder** 以選擇 **ARTISTS**，然後按 **/ENTER**。
啓動歌手搜尋模式，並顯示歌手姓名。

3 轉動 **Double Action encoder** 以選擇想要的歌手，然後按 **/ENTER**。
啓動專輯搜尋模式，並顯示專輯名稱。

4 轉動 **Double Action encoder** 以選擇專輯，然後按 **/ENTER**。
啓動歌曲搜尋模式，並顯示歌曲名稱。

5 轉動 **Double Action encoder** 以選擇歌曲，然後按 **/ENTER**。
會播放所選的歌曲。

- *如果您在搜尋模式中按住 至少 2 秒鐘，搜尋模式將被取消。*
- *在搜尋模式中，按 返回先前的模式。*
- *如果在 M.I.X. 播放中進行搜尋，便會取消 M.I.X. 播放模式。*
- *如果在 PLAYLISTS 搜尋模式中的所選擇播放清單中沒有任何歌曲，便會顯示 “NO SONG”。*
- *如果在 PODCASTS 搜尋模式中，iPhone/iPod 並無 podcast 資料，便會顯示 “NO PODCAST”。*
- *如果在 AUDIOBOOKS 搜尋模式中，iPhone/iPod 並無有聲書資料，便會顯示 “NO A-BOOK”。*
- *如果在想要的播放清單搜尋模式中選擇儲存在 iPhone/iPod 中的 “iPod name”，並且按 /ENTER ，您可以搜尋 iPhone/iPod 中的所有歌曲。另外，如果按住 /ENTER 至少 2 秒鐘，將播放 iPhone/ iPod 中的所有歌曲。*
- *如果本機不相容文字資訊，便會捲動顯示 “NO SUPPORT”。*
- *在具有 “*” 符號的搜尋模式中選擇 [ALL] 之後，按住 /ENTER 至少 2 秒鐘，而播放 iPhone/iPod 或所選擇的搜尋模式中的所有歌曲。*
- *如果搜尋模式中啓動了百分比搜尋功能，便能以搜尋特定位置的方式而快速搜尋。如需詳細資訊，請參閱第 10 頁的 “百分比搜尋功能”。*
- *如果搜尋模式中啓動了字母搜尋功能，便可使用字母搜尋功能而快速搜尋想要的歌手或歌曲等。如需詳細資訊，請參閱第 10 頁的 “字母搜尋功能”。*
- *在搜尋模式中，您可以按住並轉動 Double Action encoder 來捲動頁面。*
- *如果 60 秒內未進行任何操作，本機會自動返回正常模式。*

百分比搜尋功能

本機提供有效搜尋的百分比搜尋功能。
在搜尋模式中使用此功能時，可以快速搜尋歌手或歌曲等。
如果您的 iPhone/iPod 中存有 100 首歌曲，便會以百分比的方式分爲 10 組（如下所示）。

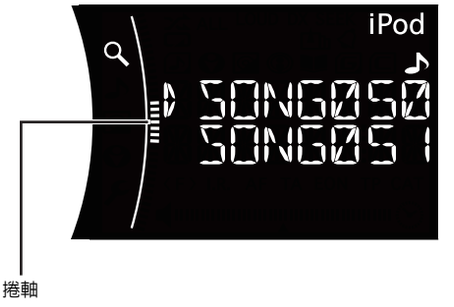
歌曲編號 / %	共 100 首歌曲								
	第 10 首歌曲	第 20 首歌曲	…	第 50 首歌曲	…	第 80 首歌曲	…	第 100 首歌曲
10 %	■							
20 %	■	■						
⋮								
50 %	■	■	■	■				
⋮								
80 %	■	■	■	■	■	■		
⋮								
100 %	■	■	■	■	■	■	■	■

** 您能以 10% 的級距來選擇總儲存歌曲的百分比。*

1 重複按 **FUNCTION/SETUP** 以選擇百分比搜尋模式。
字母搜尋功能→百分比搜尋功能→ 正常搜尋模式→ 字母搜尋功能

2 按住並轉動 **Double Action encoder**。
每向右轉動一次 Double Action encoder，就會以漸增順序跳至 10%、20% 與 100%。
每向左轉動一次 Double Action encoder，就會以漸減順序跳至 100%、90% 與 10%。

捲軸顯示範例 （如果顯示 50%）



捲軸

字母搜尋功能

首字母搜尋功能會搜尋下一個編號、符號或字母，例如從 A 到 B，從 B 到 C。
您可以將 **Double Action encoder** 向左旋轉，以相反順序搜尋，如從 B 到 A。

1 在搜尋模式中，重複按 **FUNCTION/SETUP** 以選擇字母搜尋模式。
字母搜尋功能→百分比搜尋功能→ 正常搜尋模式→ 字母搜尋功能

2 按住並轉動 **Double Action encoder**。
清單會搜尋下一頁或是下一個編號、符號或字母。

- *如果按住且向左或向右轉動 Double Action encoder，便會持續變更顯示。*
- *只有在選單選擇畫面上選擇歌曲搜尋時，才可以使用歌曲搜尋模式中的字母搜尋功能。*
- *標題以字母順序列出，並且可以 200 個標題爲單位進行跳躍。如果不足 200 個標題，則將選擇以下個字母開頭的標題。*

Up/Down 功能

如果您在搜尋模式中選擇某專輯且按住 **/ENTER**，便會重複播放此專輯。若要到上一張或下一張專輯，請使用 Up/Down 功能。

按住 **Double Action encoder** 並往左轉。
返回先前項目。

按住 **Double Action encoder** 並往右轉。
前進到下一項目。

- *如果不進行搜尋或僅搜尋歌曲名稱或有聲書，便無法使用此功能。*
- *在搜尋歌手時，可播放此歌手的專輯。*
- *如果在搜尋歌手時選擇專輯，可使用Up/Down功能來播放此歌手的其他專輯。*
- *隨機播放時無法使用此功能。*
- *此功能在USB/隨身音樂播放器模式中可用。*

搜尋位置記憶

播放 iPhone/iPod 時，可以快速返回搜尋模式中最近選擇的等級。

1 按 。
顯示搜尋模式中最近選擇的等級。

隨機播放 Shuffle (M.I.X.)

1 按 **FUNCTION/SETUP**。

2 轉動 **Double Action encoder** 以選擇 **MIX**，然後按 **/ENTER**。
Shuffle 模式啓動。

3 轉動 **Double Action encoder** 以選擇 **MIX**（隨機）播放模式，然後按 **/ENTER**。

MIX ALBUM		：隨機選擇 iPhone/iPod 中的專輯，並且依專輯歌曲順序播放。
SONG		：如果在搜尋模式中選擇歌曲，選擇模式中的所有歌曲將隨機播放。
OFF		：關閉隨機播放模式。

4 按 **FUNCTION/SETUP**。
歌曲將以隨機順序播放。

- *如果 10 秒內未進行任何操作，本機會返回正常模式。*
- *若要取消，選擇以上方法中的 OFF。*
- *隨機播放專輯 / 隨機播放歌曲的作用與 iPhone/iPod 隨機播放專輯 / 隨機播放歌曲相同。*

隨機播放 Shuffle All

Shuffle ALL 將隨機播放 iPhone/iPod 中的所有歌曲。

1 按 **/ENTER**。
出現選單選擇畫面。

2 選擇 **SHUFFLE ALL** 時按 **/ENTER**。
指示 **ALL** 亮起，歌曲將以隨機順序播放。

- *若要取消，將隨機播放模式設定爲 OFF。請參閱 “隨機播放 Shuffle (M.I.X.)”（第 11 頁）。*
- *如果選擇 SHUFFLE ALL，則在搜尋模式中正在播放的所選歌曲將被取消。*

重複播放

1 按 **FUNCTION/SETUP**。
顯示功能畫面。

2 按 **/ENTER**。
重複模式啓動。

3 轉動 **Double Action encoder** 以選擇 **REPEAT SONG**，然後按 **/ENTER**。

REPEAT SONG		：重複播放一首歌曲。
OFF		：關閉重複播放模式。

4 按 **FUNCTION/SETUP**。
重複播放該首歌曲。

- *如果 10 秒內未進行任何操作，本機會返回正常模式。*
- *若要取消，選擇以上方法中的 OFF。*
- *在重複播放時，無法經由按 或 選擇其他歌曲。*

變更顯示

按 **VIEW**。

曲目編號 已播放時間 → 歌曲名稱 *1 歌手名稱 *1 → 歌曲名稱 *1 專輯名稱 *1 →

日曆 時鐘 → 曲目編號 已播放時間

*1 *TAG 資訊*
如果沒有標記資訊，便會顯示 “ARTIST”/“ALBUM”/“SONG”。

- *只能顯示字母與數字字元。*
- *字元數最多爲 128（128 位元組）。*
- *有些字元可能無法正常顯示。*
- *當文字資訊與本機不相容時，將顯示 “NO SUPPORT”。*

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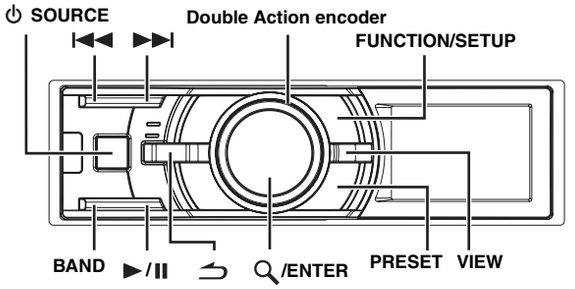
USB 記憶體 / 隨身音樂播放器 / 換碟機（選購）



如果 USB 記憶體裝置 / 隨身音樂播放器或換碟機與本機連接，可播放 MP3/WMA/AAC 檔案。

- *在 USB 模式中重設本機時，ACC 會從 OFF 切換爲 ON，或是當 USB 連接至本機時，會顯示 “BANKING” 數秒鐘。*

使用 USB 記憶體建庫功能

1. 何謂庫？

庫是由最多 1000 首歌曲組成的單元，儲存在記憶體中。“建庫” 指在 USB 記憶體中將歌曲分組成庫，每個庫 1000 首。

2. 關於建庫

正在建立庫時，將顯示 “BANKING”。每當連接了 USB 記憶體或主機電源開啓后都會建庫。

完成建庫可能需要數秒到 10 分鐘。這取決於 USB 記憶體中的檔案和資料夾數。

3. 建庫時可以進行的操作

- 可以使用專輯搜尋或標記資訊（歌手顯示等）等搜尋功能。但是，建庫過程中，資訊顯示變更所以無法進行 VIEW 操作。
- 正在播放歌曲時，可以進行普通快進或下一首歌曲選擇。
- 建庫過程中，播放歌曲順序可能與USB記憶體裝置中的歌曲順序不同。

BANK 功能 （USB 記憶體）

本機具有可自動將 USB 記憶體中每 1000 首歌曲儲存至個別歌曲庫的 BANK 功能，可讓您更輕鬆搜尋與播放歌曲。依據儲存在 USB 記憶體中的順序，一個歌曲庫最多可儲存 1000 首歌曲。最多可辨識 10 個歌曲庫 （10000 首歌曲）。預設歌曲庫爲 BANK1 （第 1~1000 首歌曲）。如果您想搜尋一千首以上的歌曲，請執行以下操作方式而選擇不同的歌曲庫。

歌曲庫號碼	歌曲編號
BANK1	1~1,000
BANK2	1,001~2,000
⋮	⋮
BANK10	9,001~10,000

1 按 **PRESET**。
此時顯示 BANK 選擇模式。

2 轉動 **Double Action encoder**。
選擇想要的 BANK。
您可以按住並轉動 Double Action encoder 來捲動頁面。

3 按 **/ENTER**。
可在所選擇的歌曲庫中進行各種操作。

- *即使檔案位於相同資料夾中，仍可能儲存在不同的歌曲庫。*

播放

1 按 **SOURCE** 選擇 **USB AUDIO** 或 **CHANGER** 模式。

2 按 或 選擇想要的曲目 （檔案）。

返回當前曲目 （檔案）的開頭：
按。

快退：
按住。

進到下一曲目 （檔案）的開頭：
按。

快進：
按住。

- *當連接了隨身音樂播放器時，無法進行快進 / 快退。*

3 若要暫停播放，按 /。
再次按 / 將恢復播放。

- *受 DRM （數位權利管理）保護的 WMA 格式檔案、從 iTunes Store 購買的 AAC 格式檔案，以及防拷 （版權保護）的檔案，無法在本機上播放。*
- *播放 VBR （可變位元率）錄製的檔案時，播放時間可能無法正確顯示。*
- *如果有標記資訊，顯示歌手姓名 / 專輯名稱 / 曲目名稱。*
- *ID3 標記 /WMA 標記*
  如果 MP3/WMA/AAC 檔案含有 ID3 標記 /WMA 標記資訊，則將顯示 ID3 標記 /WMA 標記資訊 （例如歌曲名稱、歌手姓名與專輯名稱）。所有其他標記資料被忽略。
- *當文字資訊與本機不相容時，將顯示 “NO SUPPORT”。*
- *中斷 USB 記憶體連接之前，請確保已變更爲其他音源或設爲暫停。*

選擇光碟 （換碟機）（選購）

如果選購的 6 片或 12 片 CD 換碟機與 Ai-NET 相容，可連接至本機。將 CD 換碟機連接至本機的 Ai-NET 輸入，可用本機控制 CD 換碟機。

使用 KCA-410C （多功能連結端子），本機可控制多台換碟機。請參閱第 13 頁上的 “多台換碟機選擇（選購）” 以選擇 CD 換碟機。

- *僅當連接了 CD 換碟機時，才可以操作本機的 CD 換碟機控制器。*
- *可用本機控制 DVD 換碟機 （選購）和 CD 換碟機。*

1 按 **PRESET**。
出現 DISC CHANGE 畫面。

2 轉動 **Double Action encoder** 以選擇光碟。
您可以按住並轉動 Double Action encoder 來捲動頁面。

3 按 **/ENTER**。
顯示中會出現所選擇的光碟編號且開始播放 CD/MP3/WMA/AAC。

1CT05iDAX303.fm
ALPINE iDA-X303 68-14470Z02-A (CT)

多台換碟機選擇 （選購）

使用 KCA-410C（多功能連結端子）時，您可以連接兩台換碟機與兩個外接輸出 （AUX）。

1 按本機的⏻ **SOURCE** 啓動 **CD CHANGER** 模式。

2 按 **BAND** 啓動 **CD** 換碟機選擇模式。
CD 換碟機選擇模式可維持幾秒鐘。

3 按 **BAND** 直至想要的 **CD** 換碟機出現在畫面上。

- *使用 KCA-410C 時，有關外接輸入 （AUX）的詳細資訊，請參閱第 21 頁上的 “設定 AUX 模式 （V-Link）”。*

重複播放

1 按 **FUNCTION/SETUP**。

2 按 🔍**/ENTER**。
重複播放模式啓動。

3 轉動 **Double Action encoder** 以選擇重複播放模式。

USB 記憶體模式：

REPEAT ONE	🔁	：僅重複播放一首曲目。
FOLDER	🔁	：僅重複播放一個資料夾中的檔案。
OFF		：關閉重複播放模式。

隨身音樂播放器模式：

REPEAT SONG	🔁	：僅重複播放一首曲目。
OFF		：關閉重複播放模式。

CD 換碟機模式：

REPEAT ONE	🔁	：僅重複播放一個檔案。
FOLDER *	🔁	：僅重複播放一個資料夾中的檔案。
DISC	🔁	：重複播放一張光碟。
OFF		：關閉重複播放模式。

** 當連接了與 MP3 相容的 CD 換碟機時。*

- *當以 CD 換碟機模式進行 M I X ONE 播放時，如果 REPEAT DISC 的設定爲 ON，M.I.X. 僅會套用在當前的光碟上。*

4 按 🔍**/ENTER**。

5 按 **FUNCTION/SETUP**。
曲目 （檔案）將重複播放。

- *如果 10 秒內未進行任何操作，本機會返回正常模式。*
- *若要取消，選擇以上方法中的 OFF。*

M.I.X. （隨機播放）

1 按 **FUNCTION/SETUP**。

2 轉動 **Double Action encoder** 以選擇 **M I X**。

3 按 🔍**/ENTER**。
M.I.X. 模式啓動。

4 轉動 **Double Action encoder** 以選擇 **M I X** 播放模式。

USB 記憶體模式：

M I X FOLDER	🔀	：只有一個資料夾中的檔案以隨機順序播放。
ALL	🔀 ALL	：USB 記憶體中的所有歌曲 （當前的歌曲庫）以隨機順序播放。
OFF		：關閉 M.I.X. 模式。

隨身音樂播放器模式：

M I X SONG	🔀	：只有一個資料夾中的檔案以隨機順序播放。
ALL	🔀 ALL	：隨身音樂播放器中的所有歌曲以隨機順序播放。
OFF		：關閉 M.I.X. 模式。

CD 換碟機模式：

M I X ONE	🔀	：光碟內的所有檔案會以隨機順序播放，並且播放會切換到下一張光碟。
FOLDER *1	🔀	：只有一個資料夾中的檔案以隨機順序播放。
ALL *2	🔀 ALL	：當前光碟匣裡的所有 CD 曲目將會以隨機順序播放。
OFF		：關閉 M.I.X. 模式。

**1 當連接了與 MP3 相容的 CD 換碟機時。*
**2 當連接了具有 ALL M.I.X. 功能的 CD 換碟機時。*

- *在 USB 模式中以隨機 （M.I.X.）模式播放某歌曲時，即使未播放 USB 記憶體中的所有歌曲，仍能再次隨機播放此歌曲。*
- *當以 CD 換碟機模式進行 REPEAT DISC 播放時，如果 M I X ONE 的設定爲 ON，M.I.X. 僅會套用在當前的光碟上。*

5 按 🔍**/ENTER**。

6 按 **FUNCTION/SETUP**。
曲目 （檔案）將以隨機順序播放。

- *如果 10 秒內未進行任何操作，本機會返回正常模式。*
- *若要取消，選擇以上方法中的 OFF。*

搜尋 CD 曲目編號（僅適用於 CD 換碟機）

您可以藉由曲目編號來搜尋歌曲。

1 在播放時按 **/ENTER**。
此時會設定搜尋模式。

2 轉動**Double Action encoder**以選擇想要的曲目，然後按 **/ENTER**。
此時會播放所選的曲目。

- *在搜尋模式中按 以取消。或者，如果 60 秒內未進行任何操作，便會取消搜尋模式。*
- *在清單選擇過程中，如果按住**Double Action encoder** 並左右轉動，清單畫面將逐個畫面滾動。如果您按住**Double Action encoder** 並左右轉動後按住，清單畫面將連續滾動。*
- *如果在 M.I.X. 播放中搜尋 CD 曲目編號，便會取消 M.I.X. 播放模式。*

搜尋想要的歌曲（USB 記憶體 / 隨身音樂播放器）

USB 記憶裝置 / 隨身音樂播放器可儲存上百首歌曲。藉由使用檔案標記資訊並且將這些歌曲組織在播放清單中，就可以輕鬆使用本機搜尋歌曲。
每種音樂目錄都有自己的個別等級。使用播放清單 / 歌手 / 專輯 / 音樂風格 / 作曲者 / 歌曲 / 資料夾 / 檔案搜尋模式而根據下表來簡化搜尋方式。

等級 1	等級 2	等級 3	等級 4
播放列表 (PLAYLIST)	歌曲	—	—
歌手 (ARTIST)	專輯	歌曲	—
專輯 (ALBUM)	歌曲	—	—
音樂風格 (GENRE)	歌手	專輯	歌曲
作曲者 (COMPOSER)	專輯	歌曲	—
歌曲 (SONG)	—	—	—
資料夾 (FOLDER)	檔案	—	—
檔案 (FILE)	—	—	—

例如：按歌手姓名搜尋
以下舉例說明如何執行ARTIST搜尋。儘管等級不同，其他搜尋模式也可以使用相同的操作。

1 按 **/ENTER** 啓動搜尋選擇模式。

2 轉動 **Double Action encoder** 以選擇 **ARTIST** 搜尋模式，然後按 **/ENTER**。
PLAYLIST ↔ ARTIST ↔ ALBUM ↔ GENRE ↔ COMPOSER ↔ SONG ↔ FOLDER ↔ FILE ↔ PLAYLIST

3 轉動**Double Action encoder**以選擇想要的歌手，然後按 **/ENTER**。

4 轉動 **Double Action encoder** 以選擇專輯，然後按 **/ENTER**。

5 轉動 **Double Action encoder** 以選擇歌曲，然後按 **/ENTER**。
會播放所選的歌曲。

- *在每個等級中按住 /ENTER 至少 2 秒後（SONG/FILE 等級除外），即可播放所選等級的所有歌曲。*
- *在搜尋模式下按住 至少 2 秒鐘即可取消。*
- *在搜尋模式中，按 切換到先前的模式。*
- *如果在 M.I.X. 播放中進行搜尋，便會取消 M.I.X. 播放模式。*
- *沒有資料夾名稱的根目錄資料夾顯示爲 “ROOT”。*
- *在搜尋模式中，您可以按住並轉動**Double Action encoder** 來捲動頁面。*
- *如果 60 秒內未進行任何操作，本機會自動返回正常模式。*
- *在搜尋模式中，如果所搜尋檔案不具有標記資訊，便會顯示 “NO DATA”，視檔案屬性而定在搜尋某些檔案時，也可能顯示此字樣。*
- *在 FOLDER/FILE 搜尋模式中，只能搜尋當前 BANK 的資料夾 / 檔案。*

檔案 / 資料夾名稱搜尋（MP3 換碟機）

可在播放時搜尋並顯示資料夾與檔案名稱。

1 播放 **MP3/WMA/AAC** 時，按 **/ENTER** 啓動搜尋模式。

2 轉動 **Double Action encoder** 以選擇資料夾名稱搜尋模式或檔案名稱搜尋模式，然後按 **/ENTER**。

資料夾名稱搜尋模式

3 轉動 **Double Action encoder** 以選擇想要的資料夾。
您可以按住並轉動 Double Action encoder 來捲動頁面。

4 按住 **/ENTER** 至少 **2** 秒鐘以播放所選資料夾的第一個檔案。

- *在搜尋模式下按住 至少 2 秒鐘即可取消。或者，如果 60 秒內未進行任何操作，便會取消搜尋模式。*
- *若要在資料夾名稱搜尋模式中搜尋檔案，請按 /ENTER 可搜尋資料夾中的檔案。*
- *在步驟 3 中按 退出資料夾名稱搜尋模式以選擇檔案名稱搜尋模式。*
- *沒有資料夾名稱的根目錄資料夾顯示爲 “ROOT”。*
- *如果在M.I.X. 播放中搜尋資料夾名稱，便會取消M.I.X. 播放模式。*

檔案名稱搜尋模式

3 轉動 **Double Action encoder** 選擇想要的檔案。
您可以按住並轉動 Double Action encoder 來捲動頁面。

4 按 **/ENTER** 播放所選檔案。

- *在搜尋模式下按住 至少 2 秒鐘即可取消。或者，如果 60 秒內未進行任何操作，便會取消搜尋模式。*
- *在搜尋模式中，按 返回先前的模式。*
- *如果在 M.I.X. 播放中搜尋檔案名稱，便會取消 M.I.X. 播放模式。*

快速搜尋 （換碟機）

您可以搜尋曲目 （檔案）。

1 在換碟機模式中按住 **/ENTER** 至少 **2** 秒以啓動快速搜尋模式。

2 轉動 **Double Action encoder** 以選擇想要的曲目（檔案）。
會立即播放所選的歌曲。

- *在搜尋模式中按 以取消。或者，如果 10 秒內未進行任何操作，便會取消搜尋模式。*

選擇想要的資料夾 （Folder up/down）（MP3/WMA/AAC）

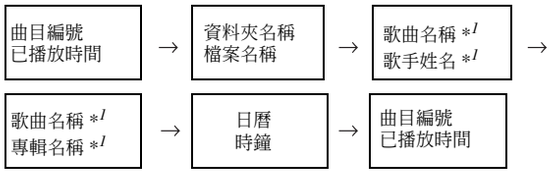
按住並轉動 **Double Action encoder** 以選擇想要的資料夾。
向右轉動以前進到下一個資料夾。
向左轉動以返回到上一個資料夾。
播放所選資料夾中的第一個檔案。

- *USB 記憶體 / 隨身音樂播放器*
  *在正常模式中播放時，如果在進行搜尋前按並轉動 **Double Action encoder**，便可啓動 FOLDER UP/DOWN 功能。*
  *在正常模式中播放時，如果在進行搜尋後按並轉動 **Double Action encoder**，便可啓動 Up/Down 功能。如需詳細資訊，請參閱第 11 頁的 “Up/Down 功能”。*

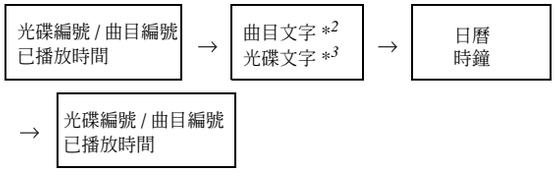
變更顯示

按 **VIEW**。

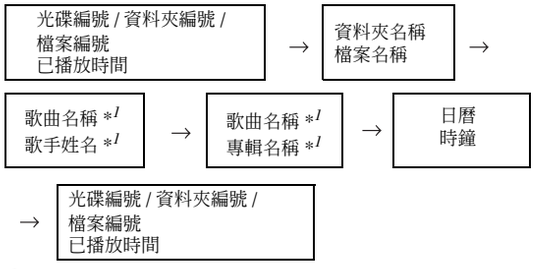
USB/ 隨身音樂播放器模式：



CD 換碟機模式：



MP3 換碟機模式：



**1 TAG 資訊*
如果沒有標記資訊，便會顯示 “ARTIST”/ “ALBUM”/ “SONG”。
**2 如果沒有曲目文字，便會顯示 “T TEXT”。*
**3 如果沒有光碟文字，便會顯示 “D TEXT”。*

- *只能顯示字母與數字字元。*
- *USB 和隨身音樂播放器的字元數最多爲 128 （128 位元組）。*
- *換碟機的字元數最多爲 64 （64 位元組）。*
- *有些字元可能無法正常顯示。*
- *當文字資訊與本機不相容時，將顯示 “NO SUPPORT”。*

關於 MP3/WMA/AAC

注意

除了用於個人用途，版權法和國際公約嚴禁未經版權所有者同意複製音訊資料（包括 MP3/WMA/AAC 資料），或對其進行分發、傳送或拷貝，無論免費或收費。

何謂 MP3?

MP3，其正式名稱是 “MPEG-1 Audio Layer 3”，是一種由 ISO（國際標準化組織）和 IEC 下的一個聯合執行機構 MPEG 規定的壓縮標準。

MP3 檔案含有壓縮的音訊資料。MP3 編碼能夠以極高比例壓縮音訊資料，將音樂檔案的尺寸減小到原來的十分之一。同時，音質仍保持接近 CD 的水平。MP3 格式透過去除人耳無法聽到的或被其他聲音掩蓋的聲音來實現如此高的壓縮率。

何謂 AAC?

AAC 是 “Advanced Audio Coding”的縮寫，也是 MPEG2 或 MPEG4 使用的音訊壓縮基本格式。

何謂 WMA?

WMA 或 “Windows Media™ Audio”是壓縮的音訊資料。WMA 與 MP3 音訊資料類似，接近 CD 的音質，但檔案較小。

建立 MP3/WMA/AAC 檔案的方法

可使用 MP3/WMA/AAC 指定軟體壓縮音訊資料。有關建立 MP3/WMA/AAC 檔案的詳細資訊，請參閱該軟體的用戶手冊。
本機可以播放的 MP3/WMA/AAC 副檔名如下所示：
MP3: “mp3”
WMA：“wma”（支援 7.1、8、9、9.1、9.2 版）
AAC: “m4a”
以下檔案 WMA 不支援：Windows Media Audio Professional、Windows Media Audio 9 Voice 或 Windows Media Audio 9 Pro Lossless。

視用於建立 AAC 的軟體而定，檔案格式可能與副檔名不同。
支援播放以 iTunes 編碼的 AAC 檔案。

支援的播放取樣頻率和位元率

MP3
取樣頻率： 48 kHz，44.1 kHz，32 kHz，24 kHz，22.05 kHz，16 kHz，12 kHz，11.025 kHz，8 kHz
位元率： 32 - 320 kbps

WMA
取樣頻率： 48 kHz，44.1 kHz，32 kHz，24 kHz，22.05 kHz，16 kHz
位元率： 16 - 320 kbps

AAC
取樣頻率： 48 kHz，44.1 kHz
位元率： 8 - 576 kbps

視取樣頻率而定，本機可能無法正確播放。
播放 VBR（可變位元率）錄製的檔案時，播放時間可能無法正確顯示。

ID3 標記 /WMA 標記

本機支援 ID3 標記 v1 和 v2.2.0、v2.3.0，及 WMA 標記。以下檔案不支援壓縮、編碼、編組或非同步化。
若標記資料在 MP3/WMA/AAC 檔案中，本機便可顯示標題（曲目標題）、歌手姓名和專輯名稱的 ID3 標記 /WMA 標記資料。
本機僅能顯示單位元組的字母與數字字元以及下劃線。對於不支援的字元，則顯示 “NO SUPPORT”。
如果資訊中含有除 ID3 標記資訊之外的字元，則可能無法播放音訊檔案。
視內容而定，標記資訊可能無法正確顯示。
檔案播放時間請勿超過一小時。

播放 MP3/WMA/AAC

準備好MP3/WMA/AAC檔案後，寫入USB記憶體。或者用Windows Media Player（7.1、8、9、9.1、9.2 版）同步 MP3/WMA 檔案，然後轉到隨身音樂播放器。
USB 記憶體裝置最多可以容納 10000 個檔案 /1000 個資料夾（包括根目錄資料夾）。如果 USB 記憶體 / 隨身音樂播放器裝置超出上述限制，可能無法進行播放。
檔案播放時間請勿超過一小時。

支援的媒體

本機可播放 USB 記憶體 / 隨身音樂播放器媒體。

相應的檔案系統

本機支援 FAT 12/16/32。

術語

位元率

這是爲編碼而規定的 “聲音” 壓縮比。位元率越高，音質越好，但檔案也越大。

取樣頻率

本值表示每秒對資料取樣（錄製）的次數。例如，音樂 CD 採用 44.1 kHz 的取樣頻率，因此每秒對聲音取樣（錄製）44100 次。取樣率越高，音質越好，但資料量也越大。

編碼

將音樂 CD、WAVE （AIFF）檔案和其他聲音檔案轉換爲指定的音訊壓縮格式。

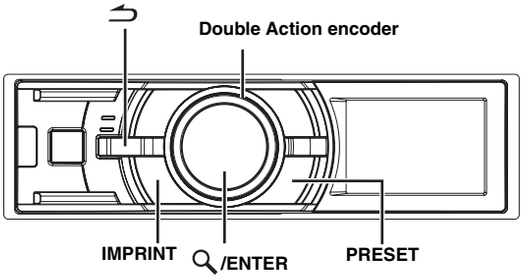
標記

寫入 MP3/WMA/AAC 檔案的歌曲資訊，比如曲目標題、歌手姓名和專輯名稱等。

根目錄資料夾

檔案系統的頂部可找到根目錄資料夾。根目錄資料夾包括全部資料夾和檔案。

聲音設定



調節重低音揚聲器 / 低音 / 高音 / 平衡（左右之間）/ 衰減（前後之間）/ 響度 / 清除

1 重複按 **IMPRINT** 以選擇想要的模式。

每按一次，模式如下改變：

SUBW LV*[1] → BASS LV → TREBLE LV → BALANCE LV → FADER LV*[2] → LOUD*[3] → DEFEAT → VOLUME → SUBW LV*[1]

重低音：+0 ～ +15
低音等級：–7 ～ +7
高音等級：–7 ～ +7
平衡：–15 ~ +15
衰減：–15 ~ +15
響度：ON/OFF
清除：ON/OFF
音量：0 ~ 35

- *如果在選擇重低音、低音、高音、平衡或衰減模式後的5 秒內，未按下* ***IMPRINT****，本機就會自動返回正常模式。*
- *響度功能可強調低音等級的低高頻率。此功能可彌補耳朵無法靈敏聽見低音與高音音質的不足。此功能在DEFEAT 設爲ON 時無法使用。*

**1 當重低音揚聲器模式設定爲 OFF 時，其音量等級不能調節。*
**2 您將 IMPRINT 音訊處理器（PXA-H100）的4.2ch（FRONT/REAR/SUBW.）/2.2ch（3WAY）開關設爲 2.2ch（3WAY）時，便無法調節 FADER 模式。詳情請參閱 PXA-H100 的用戶手冊。*
**3 連接外接音訊處理器時，便無法進行此設定。*

2 轉動 **Double Action encoder** 直到各模式出現想要的聲音為止。

- *視連接的裝置而定，某些功能與顯示指示無法運作。*

開啓 / 關閉重低音揚聲器

開啓重低音揚聲器時，您即可調節重低音揚聲器輸出等級（請參閱第 17 頁）。
對於本機，只能在未連接 IMPRINT 音訊處理器（PXA-H100）時進行以下設定。

1 按住 **IMPRINT** 至少 **2** 秒鐘啓動 **AUDIO** 選擇模式。

2 轉動 **Double Action encoder** 以選擇 **SUBW** 模式，然後按 **/ENTER**。

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

** 只有在重低音揚聲器爲 ON 時顯示。*

3 轉動**Double Action encoder**以選擇**SUBW ON/OFF**，然後按 **/ENTER**。

ON ↔ OFF

4 按返回正常模式。

- *如果 15 秒內未進行任何操作，本機會自動返回正常模式。*
- *如果在設定時按 ，本機返回先前的項目。*

設定重低音揚聲器系統

開啓重低音揚聲器時，您可以選擇想要的 SYS 1 或 SYS 2 重低音揚聲器效果。
對於本機，只能在未連接 IMPRINT 音訊處理器（PXA-H100）時進行以下設定。

1 按住 **IMPRINT** 至少 **2** 秒鐘啓動 **AUDIO** 選擇模式。

2 轉動**Double Action encoder**以選擇**SUBW SYSTEM**模式，然後按 **/ENTER**。

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

** 只有在重低音揚聲器爲 ON 時顯示。*

3 轉動**Double Action encoder**以選擇**SUBW SYS 1**或**SUBW SYS 2**，然後按 **/ENTER**。

SYS 1 ↔ SYS 2

SYS 1 ： 重低音音量會依據主音量設定而改變。
SYS 2 ： 重低音音量改變情況與主音量設定不同。舉例來說，即使是使用低音量設定，仍能聽見重低音。

4 按返回正常模式。

- *如果 15 秒內未進行任何操作，本機會自動返回正常模式。*
- *如果在設定時按 ，本機返回先前的項目。*
- *此功能在 Subwoofer 設爲 OFF 時無法使用。*

設定低音控制

您可以變更所強調的低音頻率以創造您自己喜歡的音調。
對於本機，只能在未連接 IMPRINT 音訊處理器 （PXA-H100）時進行以下設定。

1 按住 **IMPRINT** 至少 **2** 秒鐘啓動 **AUDIO** 選擇模式。

2 轉動**Double Action encoder**以選擇**BASS**調節模式，然後按**/ENTER**。

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

** 只有在重低音揚聲器爲 ON 時顯示。*

設定低音等級

3-1*1轉動**Double Action encoder**以選擇想要的低音等級（**–7~+7**），然後按**/ENTER**。
您可增強或減弱低音等級。

設定低音頻寬

3-2 轉動**Double Action encoder**以選擇想要的低音頻寬，然後按**/ENTER**。

將被增強的低音頻寬改爲較寬或較窄。較寬的設定將使中心頻率值上方或下方寬廣範圍內的頻率得到增強。較窄的設定將只能使中心頻率值附近的頻率得到增強。

設定低音中心頻率

3-3 轉動 **Double Action encoder** 以選擇想要的低音中心頻率，然後按**/ENTER**。

80 (Hz) ↔ 100 (Hz) ↔ 200 (Hz) ↔ 60 (Hz) ↔ 80 (Hz)

增強所顯示的低音頻率範圍。

4 按返回正常模式。

- *如果 15 秒內未進行任何操作，本機會自動返回正常模式。*
- *如果在設定時按 ，本機返回先前的項目。*
- *此功能在 DEFEAT 設爲 ON 時無法使用。*

**1 也可以透過按 IMPRINT 進行調節。請參閱 “調節重低音揚聲器 / 低音 / 高音 / 平衡（左右之間）/ 衰減（前後之間）/ 響度 / 清除”（第 17 頁）。*

設定高音控制

您可以變更所強調的高音頻率以創造您自己喜歡的音調。
對於本機，只能在未連接 IMPRINT 音訊處理器 （PXA-H100）時進行以下設定。

1 按住 **IMPRINT** 至少 **2** 秒鐘啓動 **AUDIO** 選擇模式。

2 轉動**Double Action encoder**以選擇**TREBLE**調節模式，然後按**/ENTER**。

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

** 只有在重低音揚聲器爲 ON 時顯示。*

設定高音等級

3-1*2轉動**Double Action encoder**以選擇想要的高音等級（**–7~+7**），然後按**/ENTER**。
您可增強高音等級。

設定高音中心頻率

3-2 轉動 **Double Action encoder** 選擇想要的高音中心頻率，然後按**/ENTER**。

10.0 kHz ↔ 12.5 kHz ↔ 15.0 kHz ↔ 17.5 kHz ↔ 10.0 kHz

增強所顯示的高音頻率範圍。

4 按返回正常模式。

- *如果 15 秒內未進行任何操作，本機會自動返回正常模式。*
- *如果在設定時按 ，本機返回先前的項目。*
- *此功能在 DEFEAT 設爲 ON 時無法使用。*

**2 也可以透過按 IMPRINT 進行調節。請參閱 “調節重低音揚聲器 / 低音 / 高音 / 平衡（左右之間）/ 衰減（前後之間）/ 響度 / 清除”（第 17 頁）。*

調節高通濾波器

您可調節本機的高通濾波器以符合自己的風格品味。
對於本機，只能在未連接 IMPRINT 音訊處理器 （PXA-H100）時進行以下設定。

1 按住 **IMPRINT** 至少 **2** 秒鐘啓動 **AUDIO** 選擇模式。

2 轉動**Double Action encoder**以選擇**HPF**調節模式，然後按**/ENTER**。

SUBW ↔ SUBW SYSTEM* ↔ BASS ↔ TREBLE ↔ HPF ↔ SUBW

** 只有在重低音揚聲器爲 ON 時顯示。*

3 轉動**Double Action encoder**以選擇想要的**HPF**頻率，然後按**/ENTER**。

OFF ↔ 80 (Hz) ↔ 120 (Hz) ↔ 160 (Hz)

4 按返回正常模式。

- *如果 15 秒內未進行任何操作，本機會自動返回正常模式。*
- *如果在設定時按 ，本機返回先前的項目。*
- *此功能在 DEFEAT 設爲 ON 時無法使用。*

操作外接音訊處理器

您可以透過本機調用外接音訊處理器的預設記憶體。

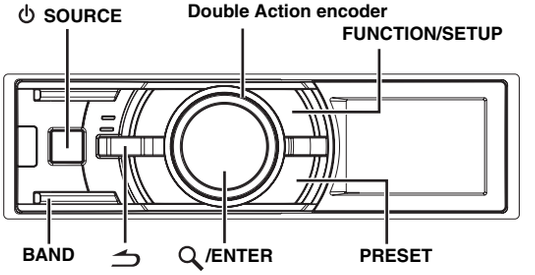
1 當連接了外接音訊處理器時，按住 **PRESET** 至少 **2** 秒鐘來調用外接音訊處理器模式。
顯示 AP 預設畫面。

2 轉動**Double Action encoder**以選擇預設號碼，然後按**/ENTER**。

- *有關外接音訊處理器的操作，請參閱您購買的外接音訊處理器的用戶手冊。*

設定

您可以按自己的偏好和用途而靈活使用本機 SETUP 選單。選擇 GENERAL、DISPLAY 等設定來進行想要的變更。



遵照步驟 **1~5** 而選擇要變更的項目。請參閱步驟 **5** 的項目說明以了解細節。

1 按住 **FUNCTION/SETUP** 至少 **2** 秒鐘啓動 **SETUP** 選擇模式。

2 轉動**Double Action encoder**以選擇想要的項目，然後按**/ENTER**。

BT*[1] ↔ AUDIO*[2] ↔ GENERAL ↔ DISPLAY ↔ IPOD ↔ BT
（例如選擇 GENERAL）

**[1] 只有在 INT MUTE 設爲 OFF 且設爲 BT AUDIO 之外的模式時顯示。*
**[2] 只有在連接外接音訊處理器時顯示。詳情請參閱外接音訊處理器的用戶手冊。*

3 轉動**Double Action encoder**以選擇設定項目，然後按**/ENTER**。
（例如選擇 POWER IC）

BT：
BT IN
AUDIO*[3]:
USER PRESET*[4] ↔ MX*[4] ↔ SUBW*[4] ↔ MX LEVEL*[5] ↔ USER PRESET*[4]

GENERAL：
CALENDAR ↔ CALENDAR ADJ*[6] ↔ CLK MODE ↔ CLK ADJ*[7] ↔ PLAY MODE ↔ BEEP ↔ INT MUTE*[8] ↔ AUX+ ↔ AUX+ NAME*[9] ↔ AUX ↔ AUX NAME*[9] ↔ DIGITAL AUX ↔ D-AUX NAME*[10] ↔ AUX IN GAIN*[11] ↔ POWER IC ↔ DEMO ↔ CALENDAR

DISPLAY：
DIMMER ↔ SCROLL TYPE ↔ TEXT SCROLL ↔ DIMMER

IPOD：
PLAYLISTS ↔ ARTISTS ↔ ALBUMS ↔ PODCASTS ↔ AUDIOBOOKS ↔ GENRES ↔ COMPOSERS ↔ SONGS ↔ PLAYLISTS

[3] 如果連接 IMPRINT 音訊處理器，您便可更詳細進行音訊設定。詳情請參閱 “IMPRINT 操作方式（選購）”（第 22 頁）。
[4] 只有在連接外接音訊處理器時顯示。
[5] 只有在 MX 設爲 ON 以及連接外接音訊處理器時顯示。
[6] 請參閱 “設定日曆”（第 7 頁）。
[7] 請參閱 “設定時間”（第 7 頁）。
[8] 僅於 BT IN 設爲 OFF 時顯示。
[9] 僅於 AUX+/AUX 設定爲 ON 時可以進行設定。
[10] 僅於 DIGITAL AUX 設爲 ON 時顯示。
[11] 僅於 AUX+ 設爲 ON 時顯示。

4 轉動 **Double Action encoder** 以更改設定，然後按 **/ENTER**。
（例如選擇 POWER IC ON 或 POWER IC OFF。）

5 按住 **2** 秒鐘將返回正常模式。

- *在過程中按 返回先前的模式。*
- *如果 60 秒內未進行任何操作，本機會自動返回正常模式。*

藍芽設定

從上述步驟 2 的設定主選單中選擇 BT。
如果連接了選購的藍芽介面（KCE-400BT），您可以利用配備藍芽的手機撥打免持電話。
當連接了藍芽介面 （KCE-400BT）並使用藍芽功能時，進行此設定。詳情請參閱選購藍芽介面 （KCE-400BT）的用戶手冊。
連接藍芽介面 （KCE-400BT）時設定 ADPT。

- *僅當連接了選購的藍芽介面 （KCE-400BT）時可以使用 按鈕。*
- *如果連接了相容語音撥號功能的移動電話，語音撥號功能可以使用。*
- *當 INT MUTE 設定爲 ON 時，無法進行藍芽設定。當連接藍芽介面 （KCE-400BT）時，將 INT MUTE 設定爲 OFF。請參閱 “開啓 / 關閉靜音模式 （INT MUTE）”（第 21 頁）。*

設定 Bluetooth 連線

***BT IN ADPT / BT IN OFF** （初始設定）*

音訊設定 （只有在連接外接音訊處理器時）

從步驟 2 的設定選單中選擇 AUDIO。

操作外接音訊處理器 （USER PRESET）

PRE-1** （初始設定）**/ PRE-2 / PRE-3 / PRE-4 / PRE-5 / PRE-6

轉動 **Double Action encoder** 以選擇想要的預設號碼，然後按 **/ENTER**。
在正常模式中，您可按住 “**PRESET**” 至少 2 秒鐘而調用外接音訊處理器的預設記憶體。請參閱第 19 頁的 “操作外接音訊處理器”。

- *有關外接音訊處理器的操作，請參閱您購買的外接音訊處理器的用戶手冊。*

開啓 / 關閉 Media Xpander

OFF** （初始設定）**/ ON

開啓 Media Xpander 時，且已連接外接音訊處理器的情況下，您便可調節 Media Xpander 等級。

設定 MX 等級

NON EFFECT / LEVEL 1 / LEVEL 2 / LEVEL 3

不管音源爲何，MX （Media Xpander）能讓歌聲或樂器聲音更清晰。即使在車內伴隨著馬路上的嘈雜聲，FM 無線電、CD、USB 記憶體和 iPhone/iPod 還是能夠清楚地重現音樂。視音源而定，初始設定也會有所差異。

開啓與關閉重低音揚聲器

SUBW ON** （初始設定）**/ SUBW OFF

也可按下 IMPRINT* 至少 2 秒鐘以進行此調節。請參閱 “開啓 / 關閉重低音揚聲器”（第 17 頁）。

* *對於本機，在連接 IMPRINT 音訊處理器時，您無法按下 IMPRINT 而開啓或關閉重低音揚聲器。*

一般設定

從步驟 2 的設定主選單中選擇 GENERAL。

日曆顯示樣式切換設定 （CALENDAR）

M/D/Y** （初始設定）**/ Y/M/D / D/M/Y

您可以切換顯示時間時所顯示的日曆顯示樣式。

Y： 顯示年
M： 顯示月
D： 顯示日
例如 M/D/Y → 01/01/2009

設定時鐘顯示 （CLK MODE）

***24H / 12H** （初始設定）*

您可以視個人的喜好，選擇時鐘顯示的類型，12小時制或24小時制。

連接 MP3 換碟機 （PLAY MODE）

CD-DA** （初始設定）**/ CD-DA&MP3

連接 MP3 換碟機時，執行此設定。MP3 換碟機可以播放包含 CD 和 MP3 資料的 CD。但是，在有些情況下 （某些增強型 CD），可能難以播放。在這些情況下，可以選擇僅播放 CD 資料。當光碟同時含有 CD 或 MP3 資料時，將從光碟的 CD 資料部分開始播放。

CD-DA： 僅能播放 CD 資料。
CD-DA&MP3： 可以播放 CD 資料和 MP3 檔案曲目。

- *執行此設定後更換光碟。*

聲音 （**Beep**）指示功能

BEEP ON *（初始設定）* **/ *BEEP OFF***

視按下的按鈕而定，此功能將給予各種聽得見的聲調反饋。

開啓 **/** 關閉靜音模式 （**INT MUTE**）

INT MUTE ON / INT MUTE OFF *（初始設定）*

如果連接了具有中斷功能的裝置，當裝置接收到中斷訊號時，音訊將會自動靜音。

- *當 Bluetooth 設定爲 ADPT 時，無法設定 INT MUTE。請參閱“設定 Bluetooth 連線”（第 20 頁）。*
- *當連接藍芽介面（KCE-400BT）時，將 INT MUTE 設定爲 OFF。*

設定 **AUX+** 模式

AUX+ ON / AUX+ OFF *（初始設定）*

您可以將外部設備的音訊（如隨身音樂播放器）輸入至本機的藍芽介面連接器。要使藍芽介面連接器用作 AUX IN，則需要特定的轉換電纜（KCE-237B）。

您無法同時連接外接裝置和藍芽介面（KCE-400BT）。

AUX+ ON ： 連接外接裝置時，請設爲 ON。如果按下⏻SOURCE 且選擇 AUX+，便可將外接裝置的音訊輸入至本機。

AUX+ OFF ：設定爲 OFF 時，無法選擇 AUX+ 音源。

設定 **AUX+ NAME** 模式

AUX *（初始設定）* **/ *TV / DVD / PORTABLE / GAME***

您可以在 AUX+ 設爲 ON 時更換 AUX+ NAME。

設定 **AUX** 模式 （**V-Link**）

AUX ON / AUX OFF *（初始設定）*

您可以將選購的 Ai-NET/RCA 介面電纜（KCA-121B）或多功能連結端子（KCA-410C）連接到此部件上，輸入電視 / 視訊的聲音。當 AUX 設定爲 ON 時，您可以改變 AUX NAME 顯示。當 AUX 設爲 ON 時按 🔍**/ENTER**，並轉動 **Double Action encoder** 選擇 AUX NAME，然後按 🔍**/ENTER**。
然後轉動 **Double Action encoder** 以選擇想要的 AUX 名稱。
如果連接了 KCA-410C，可選擇兩個 AUX 名稱。

- *透過 KCA-410C，最多可連接 2 個具有 RCA 輸出的外接裝置。此時，按 ⏻**SOURCE** 選擇 AUX 模式，然後按 **BAND** 選擇想要的裝置。*

設定外接數位輸入 （**DIGITAL AUX**）

DIGITAL AUX ON / DIGITAL AUX OFF *（初始設定）*

當連接 ALPINE Ai-NET 相容數位音訊處理器（PXA-H701）以及連接不相容於 Ai-NET 的 DVD 播放器（DVE-5207）時，請將 DIGITAL AUX 設爲 ON 以享受 5.1 聲道環繞音響。
當 DIGITAL AUX 設定爲 ON 時，您可以改變 D-AUX 名稱。DIGITAL AUX 設爲 ON 時按 🔍**/ENTER**，並轉動 **Double Action encoder** 而選擇 D-AUX NAME，然後按 🔍**/ENTER**。

- *按 ⏻**SOURCE**，並選擇 D-AUX 模式與調節音量等。*
- *完成輸入選擇後，請熄火引擎並再次啓動引擎。此時便完成了光學數位輸入開關的設定。*
- *視所連接的音訊處理器而定，即使更改爲其他音源，DVD 播放器的音源還是可能會持續輸出。如果發生此情況，請關閉 DVD 播放器電源。*

設定 **AUX+** 等級 （**AUX IN GAIN**）

LOW *（初始設定）* **/ *HI***

在 “設定 AUX+ 模式”中設爲 ON 後，便可開始此設定。

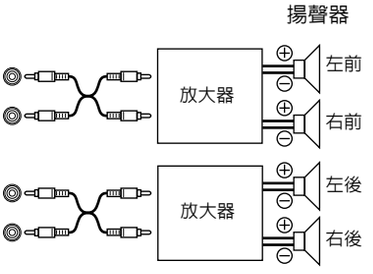
LOW：降低外接輸入音訊等級。
HI： 增加外接輸入音訊等級。

連接外接放大器 （**POWER IC**）

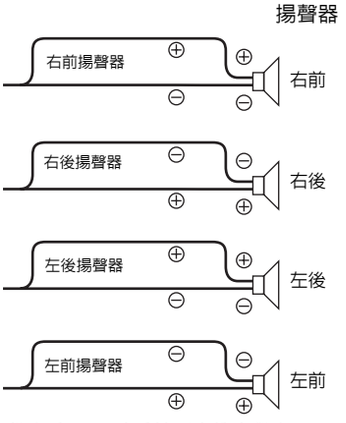
ON *（初始設定）* **/ *OFF***

與外接放大器相連時，可以經由停止對內建放大器供電來改善音質。

POWER IC OFF ： 當使用本機的前置放大器來驅動與揚聲器相連的外接放大器時，請使用此模式。在此設定中，主機的內部放大器不輸出至驅動揚聲器。



POWER IC ON ：揚聲器由內建放大器驅動。



- *當 POWER IC 設定爲 OFF 時系統不會輸出聲音。*

演示

DEMO ON / DEMO OFF *（初始設定）*

本機有顯示幕演示功能。

- *若要退出演示模式，請設定爲 DEMO OFF。*

顯示設定

從步驟 2 的設定主選單中選擇 DISPLAY 。

調光器控制

MANUAL / AUTO *（初始設定）*

將調光器控制設定爲 AUTO，汽車的頭燈設爲 ON，降低本機的照明亮度。如果您覺得本機的背光在夜間過亮，此模式非常有用。

捲軸類型設定

TYPE1 / TYPE2 *（初始設定）*

選擇其中一種捲動方法。
選擇您喜歡的類型。

TYPE1：字母會從右到左捲動，且一次出現一個字元。
TYPE2：文字從左到右堆疊出現，一次出現一個字元。當顯示幕充滿文字時將被清除，剩餘的文字以相同的方式繼續顯示直至標題文字顯示完全。

捲動設定（**TEXT SCROLL**）

AUTO / MANUAL *（初始設定）*

您可以在訊號源畫面上設定捲動類型，如歌曲標題或檔案名稱。如果搜尋模式畫面顯示充滿文字，顯示捲動。

TEXT SCROLL AUTO ： 文字資訊自動捲動。
TEXT SCROLL MANUAL ：第一個顯示僅捲動一次文字資訊。

- *在部分顯示幕上，可能無法捲動，或捲動內容可能不同。*
- *不論如何設定，如果顯示充滿文字，顯示捲動。*

iPod 設定

從步驟 2 的設定主選單中選擇 IPOD。

iPod 搜尋模式設定

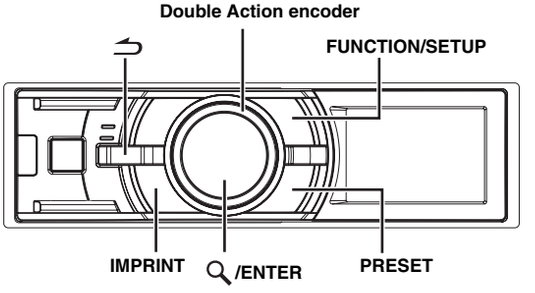
ON / OFF

本機讓您可以使用八種不同的搜尋模式來搜尋 iPhone/iPod。
當搜尋模式在 PLAYLISTS/ARTISTS/ALBUMS/PODCASTS/AUDIOBOOKS 中時，初始設定爲 ON，當搜尋模式在 GENRES/COMPOSERS/SONGS，初始設定爲 OFF。

- *若需了解搜尋模式詳細內容，請參閱 “搜尋所需歌曲 / 標題”（第 9 頁）。*

IMPRINT 操作方式（選購）

Alpine 引進 IMPRINT - 全球第一技術，徹底解決劣化音質的汽車音響問題。讓我們能體驗歌手的原創音樂，請參閱 “關於 IMPRINT”（第 29 頁）。
將 IMPRINT 音訊處理器（PXA-H100）（另售）連接至本機時，即可進行 MultEQ 與以下音質調節功能。



更改 MultEQ 模式

由 Audyssey Labs 研發的 MultEQ 會自動校正聆聽環境的音訊。針對在車內選擇的位置最優化該系統。爲了達到此目的，MultEQ 必須先測量汽車響應特性。有關設定程序的詳細資訊，請諮詢您的 Alpine 授權經銷商。

1 按住 **IMPRINT** 至少 **2** 秒鐘。

2 按 **/ENTER**。

3 轉動 **Double Action encoder** 以選擇 **MultEQ** 模式，然後按 **/ENTER**。

OFF（手動模式）→ CURVE 1（MultEQ-1）→ CURVE 2（MultEQ-2）→ OFF（手動模式）

4 按住 **IMPRINT** 至少 **2** 秒鐘將返回正常模式。

- *僅能在儲存 curve 1 與 curve 2 的情況下選擇 Curve 模式。*
- *使用 MultEQ 時，會自動設定 MX、X-OVER、Time Correction、Factory's EQ、SUBW PHASE、SUBW CHANNEL、TW Setup、EQ Mode、Filter Type、Parametric EQ 與 Graphic EQ。用戶將不再能夠自行調節上述功能。*
- *連接外接音訊處理器時，便無法使用 MultEQ 功能。*

在手動模式中調節聲音設定

您可以在 MultEQ 模式設爲 MultEQ off（手動模式）時將聲音設定更改爲喜好設定。
不過，無論 MultEQ 設定開啓或關閉，仍可開啓 / 關閉重低音系統的重低音揚聲器。

使用步驟 **1** 至 **5** 選擇任一種聲音選單模式進行調整。有關所選項目的詳細資訊，請參閱以下適用章節。

1 按住**FUNCTION/SETUP**至少**2**秒鐘啓動**SETUP**選擇模式。

2 轉動 **Double Action encoder** 以選擇 **AUDIO**，然後按 **/ENTER**。

BT*1 ↔ AUDIO ↔ GENERAL ↔ DISPLAY ↔ IPOD ↔ BT

**1 只有在INT MUTE設爲OFF且設爲BT AUDIO之外的模式時顯示。*

3 轉動 **Double Action encoder** 以選擇想要的項目，然後按**/ENTER**。

USER PRESET ↔ MX ↔ FR-EQ ↔ SOUND FIELD*2 ↔ SUBW ↔ SUBW SYS*3 ↔ SUBW PHASE*3 ↔ SUBW CHANNEL*3 ↔ TW*4 ↔ EQ MODE ↔ FILTER ↔ TCR ↔ MX LEVEL*5
（例如選擇 SUBW）

**2 在步驟3 中，可在音域調節模式中選擇三種聲音調節項目（PARAMETRIC EQ/GRAPHIC EQ、TIME CORRECTION、X-OVER），請轉動 Double Action encoder 以選擇想要的項目，然後按 /ENTER 以繼續進行步驟4。*
**3 此功能在 Subwoofer 設爲 OFF 時無法使用。*
**4 僅能在連接 PXA-H100（另售）與設爲 2.2ch（3WAY）模式時操作此功能。詳情請參閱 PXA-H100 的用戶手冊。*
**5 此功能在 MX 設爲 OFF 時無法使用。*

4 轉動 **Double Action encoder** 以更改設定，然後按 **/ENTER**。

（例如選擇 SUBW ON 或 SUBW OFF）

5 按住 至少 **2** 秒鐘將返回正常模式。

- *在 DEFEAT 設爲 ON 時無法使用 Media Xpander、Factory's EQ、參數式 EQ/ 圖形式 EQ 調節、EQ 模式與 MX 等級調節。*
- *按 返回先前的聲音選單模式。*
- *如果未於 60 秒內進行任何操作，便會取消聲音選單模式。*

用戶預設

- *如果連接 IMPRINT 音訊處理器，您便可更詳細進行音訊設定。詳情請參閱 "IMPRINT 操作方式（選購）"（第 22 頁）。*

儲存音訊調節等級

您可以在本機儲存以下 3 種的調節 / 設定內容。
以下所有的調節 / 設定項目均會儲存在預設記憶體中。

欲調節 / 設定的項目	參考頁數
EQ ADJ （參數式 EQ/ 圖形式 EQ）	第 24 頁
TCR	第 24 頁
X-OVER	第 25 頁

1 轉動**Double Action encoder**以選擇預設號碼，並按住 **/ENTER** 至少 **2** 秒鐘。

2 轉動**Double Action encoder**以選擇 **PROTECT YES/NO**，然後按 **/ENTER** 儲存調節的內容。

PROTECT YES（初始設定）↔ PROTECT NO

- *如果選擇 YES，則經過調整的項目將受到保護並儲存在預設號碼中。如果想要將參數儲存在受保護的預設號碼中，則可以選擇 "REPLACE NO/YES"。*
- *如果選擇 PROTECT NO，則儲存該預設。*
- *執行此項操作時，參數式 EQ/ 圖形式 EQ、時間校正與 X-Over 的所有經過調整的項目將儲存在預設號碼中。*
- *即使復原本機或斷開電池連接，所儲存的項目也不會被刪除。*

調用音訊調節等級

您可以調用儲存在 "儲存音訊調節等級"（第 23 頁）中的內容。

1 轉動**Double Action encoder**以選擇預設號碼，然後按 **/ENTER**。
此時已調用所選號碼的調節 / 設定內容。

- *也可以按住 PRESET 至少 2 秒鐘而在正常模式中調用用戶預設畫面。*

開啓 / 關閉 Media Xpander

開啓 Media Xpander 時，您便可調節 Media Xpander 等級 （請參閱第 26 頁）。

OFF （初始設定）↔ ON

均衡器預設 （Factory's EQ）（FR-EQ）

出廠時會預設 10 種典型均衡器設定，供多種音源素材使用。

FLAT ↔ POPS ↔ ROCK ↔ NEWS ↔ JAZZ&BLUES ↔ ELECTRICAL DANCE ↔ HIPHOP&RAP ↔ EASY LISTENING ↔ COUNTRY ↔ CLASSICAL ↔ USER1 ↔ USER2 ↔ USER3 ↔ USER4 ↔ USER5 ↔ USER6

- *藉由選擇 User 1~6 的方式，您便可調用 "調節圖形式均衡器曲線"（第 24 頁）或 "調節參數式均衡器曲線"（第 24 頁）所儲存的預設號碼。*

音域調節

可在此模式中調節參數式EQ/圖形式EQ調節、時間校正與X-Over。

調節參數式均衡器曲線

您可修改均衡器設定，使響應曲線更符合自己的喜好。若要調節參數式均衡器曲線，將 EQ MODE 設定爲 PARAMETRIC EQ。詳情請參閱 “設定 EQ 模式”（第 26 頁）。

1 從音域調節模式中選擇 **EQ ADJ**（參數 **EQ**）之後，請轉動 **Double Action encoder** 以選擇波段調節，然後按 **/ENTER**。

BAND1 → BAND2 → BAND3 → BAND4 → BAND5 → BAND1

2 轉動**Double Action encoder**以選擇要調節的項目，然後按**/ENTER**。

FC （頻率） → LV （電平） → Q （頻寬） → FC （頻率）

頻率調節

3-1 轉動 **Double Action encoder** 以選擇頻率波段。
可調節的頻率波段：
20 Hz 至 20 kHz （1/3 級距）

BAND1：20 Hz~80 Hz （63 Hz）
BAND2：50 Hz~200 Hz （150 Hz）
BAND3：125 Hz~3.2 kHz （400 Hz）
BAND4：315 Hz~8 kHz （1 kHz）
BAND5：800 Hz~20 kHz （2.5 kHz）

電平調節

3-2 轉動 **Double Action encoder** 以調節電平。
可調節電平：–6 ~ +6 dB

頻寬 （**Q**）調節

3-3 轉動 **Double Action encoder** 以設定頻寬 （**Q**）。
可調節頻寬：1、1.5、3

4 若要調節另一個波段，請重複步驟 **1~3** 並調節所有波段。

- *鄰近波段的頻率無法在 4 個單位內調節。*
- *調整參數式 EQ 時，您應考慮所連接揚聲器的頻率響應。*
- *您可以按住並轉動 **Double Action encoder** 來選擇下一個波段。*
- *您可以按住 **PRESET** 至少 2 秒鐘而在正常模式中調用用戶預設畫面。*

調節圖形式均衡器曲線

您可修改均衡器設定，使響應曲線更符合自己的偏好。若要調節圖形式均衡器曲線，將 EQ MODE 設定爲 GRAPHIC EQ。詳情請參閱 “設定 EQ 模式”（第 26 頁）。

1 從音域調節模式中選擇 **EQ ADJ**（圖形式 **EQ**）之後，請轉動 **Double Action encoder** 以選擇波段調節，然後按 **/ENTER**。

BAND1 → BAND2 → BAND3 → BAND4 → BAND5 → BAND6 → BAND7 → BAND1

BAND-1 （63 Hz）/ BAND-2 （150 Hz）/ BAND-3 （400 Hz）/ BAND-4 （1 kHz）/ BAND-5 （2.5 kHz）/ BAND-6（6.3 kHz）/ BAND-7 （17.5 kHz）

2 按 **/ENTER** 啓動電平調節模式。

3 轉動 **Double Action encoder** 以調節電平。
可調節輸出電平：–6 ~ +6 dB

4 若要調節另一個波段，請重複步驟 **1~3**，然後調節所有的波段。

- *您可以按住並轉動 **Double Action encoder** 來選擇下一個波段。*
- *您可以按住 **PRESET** 至少 2 秒鐘而在正常模式中調用用戶預設畫面。*

調節時間校正

執行以下程序之前，請參閱 “關於時間校正”（第 27 頁）。

1 從音域調節模式中選擇 **TIME CORRECTION** 之後，請轉動 **Double Action encoder** 以選擇波段調節，然後按 **/ENTER**。

2.2ch (3WAY) 系統

F-L （初始設定）→ F-R （右中） → R-L （左高） → R-R （右高） → SW-L （左中） → SW-R → F-L （左中）

4.2ch (FRONT/REAR/SUBW.) 系統

F-L （初始設定） → F-R （右前） → R-L （左後） → R-R （右後） → SW-L （左前） → SW-R → F-L （左前）

2 按 **/ENTER** 啓動 **Time Correction** 輸入模式。

3 轉動 **Double Action encoder** 以調節距離（**0.0~336.6 cm**）。

L =（至最遠揚聲器的距離）–（至其他揚聲器的距離）

請參閱第 27 頁的 “時間校正值清單”。

4 請重複步驟 **1~3** 以設定其他揚聲器。
藉由設定上述數值的方式，可使其聲音與其他揚聲器的聲音同時到達聆聽位置。

- *您可以按住與轉動 **Double Action encoder** 來選擇下一個波段。*
- *您可以按住 **PRESET** 至少 2 秒鐘而在正常模式中調用用戶預設畫面。*

調節分頻設定 (X-OVER)

執行以下程序之前，請參閱 “關於分頻器”（第 28 頁）。

2.2ch (3WAY) 系統

1 從音域調節模式中選擇 **X-OVER** 之後，請轉動 **Double Action encoder** 以選擇波段調節，然後按 **/ENTER**。

2.2ch (3WAY) 系統 / NORMAL (L=R)

設定項目：
LOW / MID-L / MID-H / HIGH

2.2ch (3WAY) 系統 / INDIVIDUAL (L/R)

設定項目：
LOW-L / LOW-R / MID-L-L / MID-L-R / MID-H-L / MID-H-R / HIGH-L / HIGH-R

2 轉動**Double Action encoder**以選擇要調節的項目，然後按 **/ENTER**。

FC → LV → SLP → FC
（截止頻率） （電平） （斜率） （頻率）

截止頻率

3-1 轉動 **Double Action encoder** 以選擇想要的截止頻率（分頻點）。
可調節的頻率波段：

2.2ch (3WAY) 系統

設定項目：

LOW / MID-L	20 Hz~200 Hz
MID-H	20 Hz~20 kHz
HIGH	（1 kHz~20 kHz）*1/（20 Hz~20 kHz）*2

**1 選擇 MAKER'S 時，請參閱 “設定高頻範圍揚聲器的響應斜率”（TW Setup）（第 26 頁）。*
**2 選擇 USER'S 時，請參閱 “設定高頻範圍揚聲器的響應斜率”（TW Setup）（第 26 頁）。*

電平調節

3-2 轉動 **Double Action encoder** 以調節輸出電平。
可調節的輸出電平：–12 ~ 0 dB

斜率調節

3-3 轉動 **Double Action encoder** 以調節斜率。
可調節的斜率：FLAT*, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

** 僅當在 “設定高頻範圍揚聲器的響應斜率（TW Setup）”（第 26 頁）中選擇 USER'S 時，將 HIGH 斜率可設爲 FLAT。視揚聲器的響應特性而定，設爲 FLAT 響應斜率時應謹慎，因爲可能會損壞揚聲器。當高頻範圍揚聲器的響應斜率設爲 FLAT 時，本機會顯示一個訊息。*

4 重複步驟 **1~3** 以調節其他波段。

4.2ch (FRONT/REAR/SUBW.) 系統

1 從音域調節模式中選擇 **X-OVER** 之後，請轉動 **Double Action encoder** 以選擇波段調節，然後按 **/ENTER**。

4.2ch (FRONT/REAR/SUBW.) 系統 /NORMAL (L=R)

設定項目：
LOW (SUB-W) / MID (REAR) / HIGH (FRONT)

4.2ch (FRONT/REAR/SUBW.) 系統 /INDIVIDUAL (L/R)

設定項目：
LOW (SUB-W)-L / LOW (SUB-W)-R / MID (REAR)-L / MID (REAR)-R / HIGH (FRONT)-L / HIGH (FRONT)-R

2 轉動**Double Action encoder**以選擇要調節的項目，然後按 **/ENTER**。

FC → LV → SLP → FC
（截止頻率） （電平） （斜率） （頻率）

截止頻率

3-1 轉動 **Double Action encoder** 以選擇想要的截止頻率（分頻點）。
可調節的頻率波段：

4.2ch (FRONT/REAR/SUBW.) 系統

設定項目：
20 Hz~200 Hz

電平調節

3-2 轉動 **Double Action encoder** 以調節輸出電平。
可調節的輸出電平：–12 ~ 0 dB

斜率調節

3-3 轉動 **Double Action encoder** 以調節斜率。
可調節的斜率: FLAT, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

4 重複步驟 **1~3** 以調節其他波段。

- *您可以按住並轉動 **Double Action encoder** 來選擇下一個波段。*
- *調整 X-over 時，您應考量所連接揚聲器的頻率響應。*
- *關於 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) 系統*
  可以用 PXA-H100 上的 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) 開關切換到 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) 系統模式。詳情請參閱 PXA-H100 的用戶手冊。
- *您可以按住 **PRESET** 至少 2 秒鐘而在正常模式中調用用戶預設畫面。*

開啓 / 關閉重低音揚聲器

開啓重低音揚聲器時，您即可調節重低音揚聲器輸出等級（請參閱第 17 頁）。

OFF ↔ ON（初始設定）

設定重低音揚聲器系統

開啓重低音揚聲器時，您可以選擇所想要的 SYS 1 或 SYS 2 重低音揚聲器效果。

1（初始設定）↔ 2

SYS 1： 重低音揚聲器音量會依據主音量設定而改變。
SYS 2： 重低音揚聲器音量改變情況與主音量設定不同。舉例來說，即使是使用低音量設定，仍能聽見重低音。

設定重低音揚聲器相位

NORMAL（初始設定）↔ REVERSE

重低音揚聲器輸出相位爲 SUBWOOFER NORMAL（0°）或 SUBWOOFER REVERSE (180°)。若要調節等級，請轉動 **Double Action encoder**。

設定重低音揚聲器聲道（**SUBW CHANNEL**）

您可以將重低音揚聲器輸出設爲立體聲或單聲道。請務必爲重低音揚聲器種類設定正確的輸出值。

STEREO（初始設定）↔ MONO

STEREO：重低音揚聲器立體聲（L/R）輸出
MONO： 重低音揚聲器單聲道輸出

設定高頻範圍揚聲器的響應斜率（**TW Setup**）

視揚聲器的響應特性而定，在 2.2ch（3WAY）模式將高頻範圍揚聲器的響應斜率設爲 FLAT 時應謹慎（請參閱第 25 頁的“調節分頻設定（X-OVER）”），因爲可能會損壞揚聲器。

MAKER'S（初始設定）↔ USER'S

MAKER'S： 爲了保護揚聲器不受損壞，無法在 2.2ch（3WAY) 模式中將高頻範圍揚聲器的響應斜率設爲 FLAT。
USER'S： 可在 2.2ch（3WAY）模式中設定 FLAT。

設定 **EQ** 模式

此設定共有 5 種波段參數選項，或 7 種波段圖形式均衡器選項。

PARAMETRIC（初始設定）↔ GRAPHIC

設定濾波器種類

NORMAL（初始設定）↔ INDIVIDUAL

NORMAL (L=R)： 可相同調節左右揚聲器。
INDIVIDUAL (L/R)： 可分別調節左右揚聲器。

設定時間校正單位（**TCR** 參數）

您可以更改時間校正的單位（cm 或 inch）。

CM（初始設定）↔ INCH

設定 **MX** 等級

不管音源爲何，MX（Media Xpander）能讓歌聲或樂器聲音更清晰。即使在車內伴隨著馬路上的嘈雜聲，FM 無線電、CD、USB 記憶體和 iPhone/iPod 還是能夠清楚地重現音樂。

更改為您想套用 **Media Xpander** 的音源。

FM（MX 等級 1~3）：
中頻至高頻變得更清晰，也在所有的頻率產生良好的平衡聲音。

CD（MX 等級 1~3）：
播放期間，CD 模式處理大量資料。MX 利用大量資料處理，重現更清楚、清晰的輸出。

CMPM/SAT（MX 等級 1~3）：
可校正在壓縮時遺失的資訊。可以重現接近原聲的平衡聲音。

DVD（MX 等級 1~3）：
DVD 或視訊 CD 包含大量資料，例如音樂錄影帶。MX 用此資料精確地再現聲音。

AUX（MX 等級 1）：
選擇與所連媒體對應的 MX 模式（CMPM、MOVIE 或 MUSIC）。

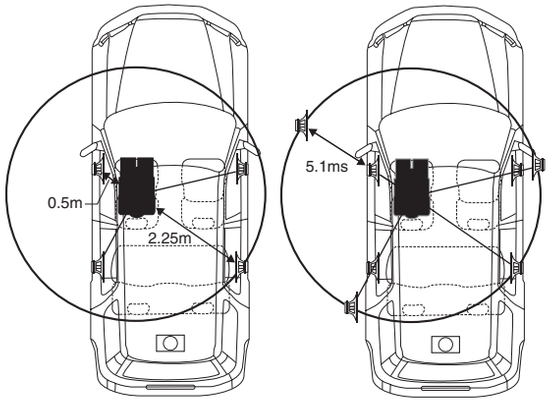
- *視音源而定，MX 初始設定也會有所差異。*
- *每個音源，例如：FM 無線電、CD 和 MP3/WMA/AAC，可擁有自己的 MX 設定。*
- *在 MP3/WMA/AAC 和 CD-DA 的光碟上，當音源從“MP3/ WMA/AAC 變爲 CD-DA”或“CD-DA 變爲 MP3/WMA/AAC”時，MX 模式切換可能會稍微滯延播放。*
- *Non Effect 設定將每個音樂的 MX 模式設爲關閉。*
- *此功能在 DEFEAT 設爲 ON 時無法使用。*
- *AM 無線電沒有 MX 模式。*
- *如果連接了具 MX 功能（PXA-H701 等）的音訊處理器，其 MX 處理會套用在音源上。由於處理器 MX 設定可能不符合主機，所以需要調節音訊處理器。詳情請參閱音訊處理器的用戶手冊。*
- *“CMPM”可套用在 MP3/WMA/AAC 與 iPhone/iPod。*

關於時間校正

在車內，聆聽者與揚聲器之間的距離視複合揚聲器放置的位置而有相當大的差異。聆聽者與揚聲器之間距離的差異，會在聲音影像和頻率特性中產生轉移。這是由聲音傳達到聆聽者的右耳與左耳之間所產生的時間滯延而引起的。
爲了校正該問題，本機能夠延遲傳達至最接近聆聽者的揚聲器的音訊。這會使聆聽者感到與揚聲器之間的距離增加。聆聽者可坐在左右揚聲器的正中央，以獲得最佳音域。
以 3.4cm 爲單位，爲每個揚聲器進行調節。

範例 **1** 聆聽位置：左前方座位

將左前方揚聲器的時間校正值調節到最高，並將右後方的校正值調爲零或調爲較低值。



此時聲音未達平衡，因爲聆聽位置與多處揚聲器之間的距離不同。
左前方揚聲器與右後方揚聲器的距離差距爲 1.75 m。
我們可以在上圖中計算左前方揚聲器的時間校正值。

條件：
最遠的揚聲器 – 聆聽位置：2.25 m
左前方揚聲器 – 聆聽位置：0.5 m
計算公式：L = 2.25 m – 0.5 m = 1.75 m
時間校正值 = 1.75 ÷ 343*[1] × 1000 = 5.1 （ms）

*[1] *音速：20°C 時爲 343 m/s*

換句話說，爲左前方揚聲器進行 5.1 ms 的時間校正，就能使其與聆聽者之間的距離等於最遠揚聲器與聆聽者之間的距離。

時間校正值能去除聲音抵達聆聽位置的差異時間。
左前方揚聲器的時間校正爲 5.1 ms，所以此揚聲器聲音抵達聆聽位置的時間，會與其它揚聲器一樣。

範例 **2** 聆聽位置：所有座位

將每個揚聲器的時間校正值調節爲幾乎是相同的值。

1 坐在聆聽位置（駕駛座等）並測量您的頭部與多處揚聲器之間的距離 （以公尺為單位）。

2 計算最遠的揚聲器與其他揚聲器之間的距離差異校正值。

L = （至最遠揚聲器的距離）–（至其他揚聲器的距離）

這些數值便爲不同揚聲器的時間校正值。藉由設定上述數值的方式，可讓其他揚聲器的聲音同時到達聆聽位置。

時間校正值清單

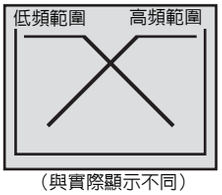
延緩編號	時間差異（ms）	距離（cm）	距離 (inch)	延緩編號	時間差異（ms）	距離（cm）	距離 (inch)
0	0.0	0.0	0.0	51	5.1	173.4	68.3
1	0.1	3.4	1.3	52	5.2	176.8	69.7
2	0.2	6.8	2.7	53	5.3	180.2	71.0
3	0.3	10.2	4.0	54	5.4	183.6	72.4
4	0.4	13.6	5.4	55	5.5	187.0	73.7
5	0.5	17.0	6.7	56	5.6	190.4	75.0
6	0.6	20.4	8.0	57	5.7	193.8	76.4
7	0.7	23.8	9.4	58	5.8	197.2	77.7
8	0.8	27.2	10.7	59	5.9	200.6	79.1
9	0.9	30.6	12.1	60	6.0	204.0	80.4
10	1.0	34.0	13.4	61	6.1	207.4	81.7
11	1.1	37.4	14.7	62	6.2	210.8	83.1
12	1.2	40.8	16.1	63	6.3	214.2	84.4
13	1.3	44.2	17.4	64	6.4	217.6	85.8
14	1.4	47.6	18.8	65	6.5	221.0	87.1
15	1.5	51.0	20.1	66	6.6	224.4	88.4
16	1.6	54.4	21.4	67	6.7	227.8	89.8
17	1.7	57.8	22.8	68	6.8	231.2	91.1
18	1.8	61.2	24.1	69	6.9	234.6	92.5
19	1.9	64.6	25.5	70	7.0	238.0	93.8
20	2.0	68.0	26.8	71	7.1	241.4	95.1
21	2.1	71.4	28.1	72	7.2	244.8	96.5
22	2.2	74.8	29.5	73	7.3	248.2	97.8
23	2.3	78.2	30.8	74	7.4	251.6	99.2
24	2.4	81.6	32.2	75	7.5	255.0	100.5
25	2.5	85.0	33.5	76	7.6	258.4	101.8
26	2.6	88.4	34.8	77	7.7	261.8	103.2
27	2.7	91.8	36.2	78	7.8	265.2	104.5
28	2.8	95.2	37.5	79	7.9	268.6	105.9
29	2.9	98.6	38.9	80	8.0	272.0	107.2
30	3.0	102.0	40.2	81	8.1	275.4	108.5
31	3.1	105.4	41.5	82	8.2	278.8	109.9
32	3.2	108.8	42.9	83	8.3	282.2	111.2
33	3.3	112.2	44.2	84	8.4	285.6	112.6
34	3.4	115.6	45.6	85	8.5	289.0	113.9
35	3.5	119.0	46.9	86	8.6	292.4	115.2
36	3.6	122.4	48.2	87	8.7	295.8	116.6
37	3.7	125.8	49.6	88	8.8	299.2	117.9
38	3.8	129.2	50.9	89	8.9	302.6	119.3
39	3.9	132.6	52.3	90	9.0	306.0	120.6
40	4.0	136.0	53.6	91	9.1	309.4	121.9
41	4.1	139.4	54.9	92	9.2	312.8	123.3
42	4.2	142.8	56.3	93	9.3	316.2	124.6
43	4.3	146.2	57.6	94	9.4	319.6	126.0
44	4.4	149.6	59.0	95	9.5	323.0	127.3
45	4.5	153.0	60.3	96	9.6	326.4	128.6
46	4.6	156.4	61.6	97	9.7	329.8	130.0
47	4.7	159.8	63.0	98	9.8	333.2	131.3
48	4.8	163.2	64.3	99	9.9	336.6	132.7
49	4.9	166.6	65.7				
50	5.0	170.0	67.0				

關於分頻器

分頻器（**X-OVER**）：
本機配備有源分頻器。分頻器限制傳送至輸出的頻率。每個頻道皆單獨控制。因此，各組揚聲器可由符合它們最佳化設計的頻率驅動。
分頻器調節每個波段的 HPF（高通濾波器）或 LPF（低通濾波器），以及斜率（濾波器通過高點與低點的速度）。
必須根據揚聲器的重現特性進行調節。視揚聲器而定，可能不需要無源網路。如果不確定，請諮詢您的 Alpine 授權經銷商。

4.2ch (FRONT/REAR/SUBW.) 模式

	截止頻率（以 **1/3** 個八度音階為單位）		斜率		音量
	HPF	**LPF**	**HPF**	**LPF**	
低頻範圍揚聲器	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	0 至 –12 dB
後置高頻範圍揚聲器	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 至 –12 dB
前置高頻範圍揚聲器	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 至 –12 dB

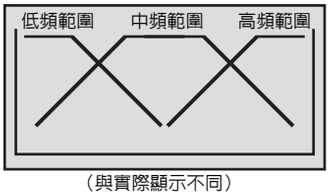


（與實際顯示不同）

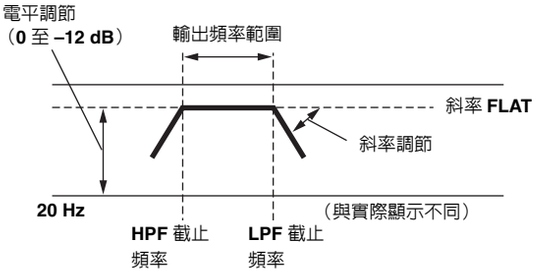
2.2ch (3WAY) 模式

	截止頻率（以 **1/3** 個八度音階為單位）		斜率		音量
	HPF	**LPF**	**HPF**	**LPF**	
低頻範圍揚聲器	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	0 至 –12 dB
中頻範圍揚聲器	20 Hz - 200 Hz	20 Hz - 20 kHz	FLAT, 6, 12, 18, 24 dB/oct.	FLAT, 6, 12, 18, 24 dB/oct.	0 至 –12 dB
高頻範圍揚聲器	1 kHz - 20 kHz, (20 Hz ~ 20 kHz)*	----	FLAT* 6, 12, 18, 24 dB/oct.	----	0 至 –12 dB

** 僅當在 "設定高頻範圍揚聲器的響應斜率（TW Setup）"（第 26 頁）選擇 USER'S 時。*



（與實際顯示不同）



- *HPF（高通濾波器）：能截止較低頻率，使較高頻率通過。*
- *LPF（低通濾波器）：能截止較高頻率，使較低頻率通過。*
- *斜率：電平隨著一個八度音階的頻率更改而改變（以 dB 爲單位）。*
- *斜率值越高，表示斜率越陡。*
- *調節斜率至 FLAT 以繞過 HP 或 LP 濾波器。*
- *請勿在沒有開啓 HPF 或設爲低頻率時使用小型高音擴音器，因爲低頻率可能會使揚聲器損壞。*
- *您無法將分頻器頻率調節爲高於 HPF 或低於 LPF 的頻率。*
- *應依據所連接揚聲器建議的分頻器頻率來進行調節。確定揚聲器建議的分頻器頻率。如果調節爲建議範圍以外的頻率，可能會損壞揚聲器。*
  關於 Alpine 揚聲器建議的分頻器頻率，請參閱各自的用戶手冊。如果因使用建議值以外的頻率而使揚聲器損壞或故障，本公司恕不負責。

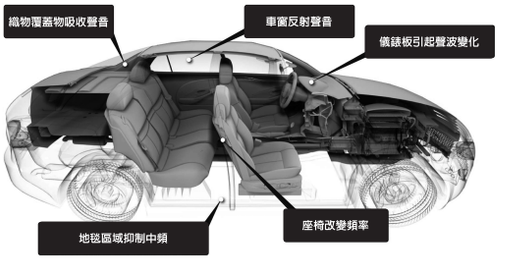
關於 IMPRINT

夢想與現實

所有美妙的音樂，皆起源於藝術家的夢想。經過無數小時的排練、錄製和混音，這種夢想得以呈現，供我們透過光碟、收音機，以及其他媒體聆聽。但是，我們聽到的是藝術家的原創嗎？實際上，我們幾乎不曾精確地欣賞到藝術家的原創。特別是當我們在車內聆聽時。

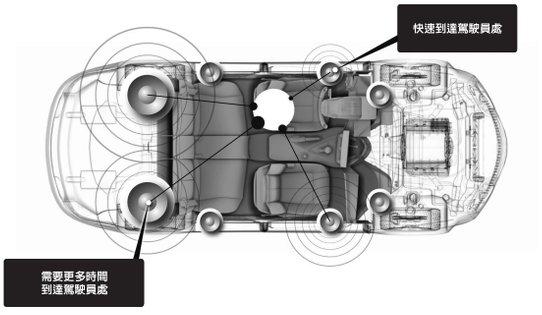
車內是最糟糕的聆聽空間

汽車內部充滿會阻擾並劣化音質的零件。例如：車窗會放大並反射高頻。座椅和儀表板蓋會改變某些頻率。地毯會吸收並抑制中頻。圖形式和參數式 EQ 只是這些問題的部分解決方法。另外，各揚聲器與聆聽者之間的距離並不相等，造成不平衡、不集中的音域。時間校正有助於解決此問題，但僅限於一個聆聽位置。



引進 IMPRINT

這些音響問題過於嚴重，以致於沒有任何校正系統能夠克服。直到現在，由於引進 IMPRINT，Alpine 提供的硬體 / 軟體組合不但能解決這些問題，事實上，它還能改善音域、音調平衡和清晰度 - 並在幾分鐘內自動完成！



為何 IMPRINT 與衆不同

基於五項理由，使用 MultEQ 的 IMPRINT 比其他均衡系統更優秀。

- 它是唯一能完整測量聆聽區域、從每個聆聽位置擷取時域資訊，以及利用一種專利方法處理時域資訊使其可代表所有座椅位置的系統。這能給予每個座位的聽眾最佳的聆聽體驗。
- 它能校正時間與頻率問題，改善音域，產生更柔和、更自然的聲音。
- 它使用動態頻率分配，將數百個校正點應用在聲音問題最大的區域。
- 它能爲低分頻器測量出最佳的混合點。
- 它能夠在幾分鐘內提供專業技師一般需要數天才能完成的汽車聲音調諧。

資訊

出現問題時

如果您遇到問題，請關閉電源，然後再打開。如果機器仍舊無法正常工作，請查看下列清單中的項目。如果機器出現故障，本手冊將幫助您解決問題。否則，請確認您的系統是否連接正確或諮詢您的 Alpine 授權經銷商。

基本問題

無法使用功能或無畫面顯示。
- 汽車的點火開關關閉。
  - 如果按說明連接，本機將不會在汽車點火開關關閉的情況下運行。
- 電源線 （紅）和電瓶線 （黃）連接不正確。
  - 檢查電源線和電瓶線的連接。
- 保險絲燒壞。
  - 檢查機器的保險絲，如果需要，更換合適規格的保險絲。
- 由於干擾噪音等造成的內部微電腦故障。
  - 用原子筆或其他帶尖頭的物體按 RESET 開關。

無線電

無法接收電台。
- 無天線或電纜連接斷開。
  - 確認天線已正確連接；必要時更換天線或電纜。

無法在搜尋模式中調電台。
- 您處在訊號較弱的地區。
  - 確保調諧器處在 DX 模式中。
- 如果您處在主要訊號區，天線可能沒有正確接地和連接。
  - 檢查天線連接；請確保天線在安裝位置正確接地。
- 天線可能長度不合適。
  - 確保天線完全延伸；如果斷裂，請更換新的天線。

廣播出現噪音。
- 天線可能長度不合適。
  - 完全延長天線；如果其斷裂，請對其進行更換。
- 天線接地不良。
  - 確保在安裝位置將天線正確接地。

MP3/WMA/AAC

無法播放 **MP3**、**WMA** 或 **AAC**。
- 出現寫入錯誤。MP3/WMA/AAC 格式不相容。
  - 確保 MP3/WMA/AAC 以支援的格式寫入。請參閱 “關於 MP3/WMA/AAC”（第 16 頁），然後用本機支援的格式重新寫入。

音訊

聲音未從揚聲器輸出。
- 機器無內部放大器的輸出訊號。
  - POWER IC 切換至 “ON”（第 21 頁）。

iPod

iPod 不播放或沒有聲音輸出。
- iPod 未被識別。
  - 重設本機和 iPod。請參閱 “初始化系統啓動”（第 6 頁）。若要重設 iPod，請參考 iPod 的用戶手冊。

iPod 模式中的顯示

CURRENT ERROR
- 異常電流通過連接至 USB 的裝置。如果所連接的裝置爲不相容的或有故障的可能顯示錯誤訊息。
  - 嘗試連接其他 iPhone/iPod。

DEVICE ERROR
- 連接了本機不支援的 iPod。
  - 連接本機支援的 iPod。

NO USB DEVICE
- 未連接 iPhone/iPod。
  - 確保正確連接 iPhone/iPod，請勿將電纜彎折過度。

NO SONG
- iPhone/iPod 中無歌曲。
  - 將歌曲下載至 iPhone/iPod，然後與本機相連。

NO SUPPORT
- 輸入了本機不支援的文字資訊。
  - 使用輸入的文字資訊受本機支援的 iPhone/iPod。

ERROR-01
- 通信錯誤
  - 關閉點火開關，然後再次設定爲 ON。
  - 重設 iPod。
  - 將 iPhone/iPod 重新連接至 iPod 用介面電纜和 USB 電纜後，在畫面上確認。

ERROR-02
- 故障原因在於 iPhone/iPod 軟體版本與本機不相容。
  - 更新 iPhone/iPod 軟體版本，使其與本機相容。

ERROR-03

- 未確認 iPhone/iPod。
  - 更換其他 iPhone/iPod。

USB 記憶體中的顯示

CURRENT ERROR

- 異常電流通過連接至 USB 的裝置。如果所連接的裝置爲不相容的可能顯示錯誤訊息。USB 記憶裝置可能出現故障。
  - 嘗試連接其他 USB 記憶體。

DEVICE ERROR

- 連接了本機不支援的 USB 裝置。
  - 連接本機支援的 USB 裝置。

NO USB DEVICE

- 未連接 USB 記憶體。
  - 確保正確連接 USB 記憶體裝置，請勿將電纜彎折過度。

NO SONG

- USB 記憶體內未儲存歌曲 （檔案）。
  - 儲存歌曲 （檔案）後，連接 USB 記憶體。

UNSUPORT

- 使用了本機不支援的取樣頻率 / 位元率。
  - 使用本機支援的取樣頻率 / 位元率。

PROTECT

- 播放版權保護的 WMA 檔案。
  - 您只可以播放未經版權保護的檔案。

NO SUPPORT

- 輸入了本機無法辨識的文字資訊。
  - 使用本機支援輸入文字資訊的 USB 記憶體。

隨身音樂播放器模式的顯示

CURRENT ERROR

- 異常電流通過連接至 USB 的裝置。如果所連接的裝置爲不相容的可能顯示錯誤訊息。USB 記憶裝置可能出現故障。
  - 嘗試連接其他隨身音樂播放器。

DEVICE ERROR

- 連接了本機不支援的隨身音樂播放器。
  - 嘗試連接其他隨身音樂播放器。

NO USB DEVICE

- 未連接隨身音樂播放器。
  - 確保正確連接隨身音樂播放器，請勿將電纜彎折過度。

NO SONG

- 隨身音樂播放器中無歌曲。
  - 將歌曲下載至隨身音樂播放器，然後與本機相連。

NO SUPPORT

- 輸入了本機不支援的文字資訊。
  - 使用輸入的文字資訊受本機支援的隨身音樂播放器。

ERROR-01

- 通信錯誤
  - 關閉點火開關，然後再次設定爲 ON。
  - 重新將隨身音樂播放器連接至電纜後，請確認畫面。

ERROR-02

- 故障原因在於軟體版本與本機不相容。
  - 請更新隨身音樂播放器的軟體版本。

ERROR-03

- 未確認隨身音樂播放器。
  - 更換其他隨身音樂播放器。

CD 換碟機的指示

HI-TEMP

- 保護電路由於高溫而啓動。
  - 當溫度返回到正常工作範圍中時，指示將消失。

ERROR-01

- CD 換碟機故障。
  - 請諮詢 Alpine 經銷商。按光碟匣彈出按鈕，拉出光碟匣。檢查指示。再次置入光碟匣。
    如果無法拉出光碟匣，請諮詢您的 Alpine 經銷商。
- 無法彈出光碟匣。
  - 按光碟匣彈出按鈕。如果無法彈出光碟匣，請諮詢您的 Alpine 經銷商。

ERROR-02

- 光碟留在 CD 換碟機內。
  - 按彈出按鈕啓動彈出功能。當 CD 換碟機完成彈出功能時，將空的 CD 光碟匣置入 CD 換碟機，接收留在 CD 換碟機內的光碟。

NO MAGAZINE

- 無光碟匣載入 CD 換碟機。
  - 置入光碟匣。

NO DISC

- 無指示光碟。
  - 選擇其他光碟。

規格

FM 調諧器部分

調諧範圍	87.5-108.0 MHz
單聲道可用靈敏度	9.3 dBf （0.8μV/75 歐姆）
50 dB 靜噪靈敏度	13.5 dBf （1.3μV/73 歐姆）
選擇度	80 dB
訊號雜訊比	65 dB
立體聲分離度	35 dB
俘獲比	2.0 dB

AM 調諧器部分

調諧範圍	531-1602 kHz
靈敏度 （IEC 標準）	22.5μV/27dB

USB 部分

USB 要求	USB 1.1/2.0
最大功率消耗	500mA
USB 等級	大量儲存
檔案系統	FAT 12/16/32
MP3 解碼	MPEG-1/2 AUDIO Layer-3
WMA 解碼	Windows Media™ Audio
AAC 解碼	AAC-LC 格式 “.m4a” 檔案
聲道數	2 聲道 （立體聲）
頻率響應 *	5-20000 Hz （± 1 dB）
總諧波失眞	0.008%（在 1 kHz 情況下）
動態範圍	95 dB （在 1 kHz 情況下）
訊號雜訊比	>105 dB
頻道分離度	85 dB （在 1 kHz 情況下）

* 視編碼軟體 / 位元率而定，頻率響應可能不同。

一般部分

電源要求	14.4 V DC （可允許 11-16 V）
最大功率輸出	45 W × 4
最大前置輸出電壓	2 V/10 千歐
低音	100 Hz 時± 14 dB
高音	在 10 kHz 時± 14 dB
重量	1.0 kg

底座尺寸

寬度	178 mm
高度	50 mm
深度	156 mm

梁架尺寸

寬度	170 mm
高度	46 mm
深度	28 mm

- *由於產品不斷改進，規格和設計若有變更，恕不另行通知。*

安裝和連接

在安裝或連接本機之前，請通讀以下說明及手冊的第 **3** 和 **4** 頁，以確保正確使用。

⚠警告

進行正確的連接。
連接不妥當，可能導致火災或損壞產品。

僅用於 12 伏負極 （－）接地的汽車。
（如果您無法確定，請向您的代理商確認。）否則可能會造成火災或電擊。

在進行配線之前，請拆下連接在電池負極端子上的電纜。
否則可能會因短路造成電擊或傷害。

不可切開電纜。
切勿剝除連接到其它設備上的電源線的絕緣層。否則將因超過電線的容許負荷量而導致火災或觸電。

鑽孔時注意別損傷配管或電線。
當在底盤上鑽安裝孔時，須特別注意別碰傷管道燃油線路，油箱或電線。否則，可能導致火災。

不可利用煞車或轉向系統上的螺栓或螺母連接地線。
煞車或轉向系統（或任何其它安全有關系統），或油箱上用的螺栓或螺母，絕對不能利用於安裝或接地線。否則，將導致汽車控制困難或發生火災等。

請將小物體（如螺栓或螺釘）放置在兒童不易觸及的地方。
吞下小物體會引起嚴重的傷害。如果誤吞，請立即請醫生診治。

不要安裝在妨礙汽車駕駛的位置，例如方向盤和變速器（附近）。
這樣做也許會妨礙前方的視野或影響駕駛等，並引起嚴重的事故。

別讓電纜糾纏上周圍物體。
須按說明書配置電線電纜以防駕駛中發生阻撓。電纜或電線任由糾纏或懸垂於方向盤，變速桿，剎車踏板等處是很危險的。

⚠注意

請專業人員進行配線和安裝。
本裝置的配線和安裝需要專門的技術和經驗。爲了確保安全，請與您購買的經銷商聯絡以便安全地進行安裝。

使用專用配件並進行安全安裝。
注意限使用指定的附件。使用其它設計零件，可能損壞本機內部，或不能牢固地安裝到位。導致零件鬆脫發生危險或使機器故障。

安排配線使不至於被銳利金屬邊鉗夾傷。
電纜、電線須適當迂回避開移動性部件（例如座位滑動軌道）或銳利金屬邊緣 以防鉗傷電線。電線須穿過金屬板孔時，請用橡皮墊圈套住以防電線的絕緣層被金屬孔邊緣割傷。

不要安裝在極潮濕或多塵埃的位置。
避免把機器安裝在極潮濕、多塵的位置。濕氣或塵埃侵入機器裡，可能導致機器故障。

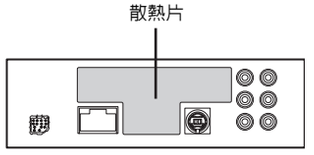
注意事項

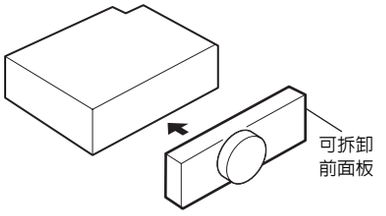
- 在安裝 iDA-X303 之前，請務必將電纜從電瓶的負極（－）上斷開。這樣做可以在出現短路時降低對本機造成損壞的機率。
- 請務必根據圖示連接彩色編碼的電線。連接不正確可能會造成本機故障或汽車電氣系統損壞。
- 當與汽車電氣系統相連時，請注意出廠安裝的部件（如板載電腦）。請勿搭接這些電線來接通本機的電源。當將 iDA-X303 連接至保險絲盒時，請確保 iDA-X303 需使用的電路的保險絲的安培值合適。若不合適，可能會造成本機和 / 或汽車的損壞。若有疑問，請詢問您的 Alpine 經銷商。
- iDA-X303 使用凹入式RCA 型插孔來連接其他帶RCA 連接器的設備 （如放大器）。您可能需要轉接器來連接其他設備。如果需要轉接器，請聯絡專業 Alpine 經銷商。
- 請務必將揚聲器 （－）電線連接至揚聲器 （－）端子。切勿將左右聲道揚聲器電纜相互連接，或連接至車身。

重要事項	
請在橫線上填上本機的系列號，並進行永久保存。系列號或刻在機身上的系列號位於機器的底部。	系列號：_____ 安裝日期：_____ 安裝技術人員：_____ 購買地：_____

安裝

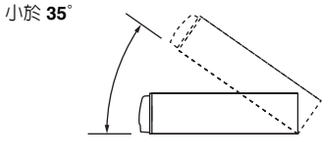
注意
請勿阻塞本機的散熱片，影響空氣流通。如果阻塞，熱量會在本機內部累積，可能引發火災。



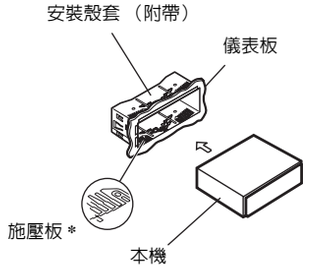


注意
當您將本機安裝到車內時，請勿拆下可拆卸式前面板。
如果在安裝過程中可拆卸式前面板被拆下，您可能按得過重使金屬板偏出固定位置。

- *主機必須安裝在水平面的 35 度內，從後到前。*



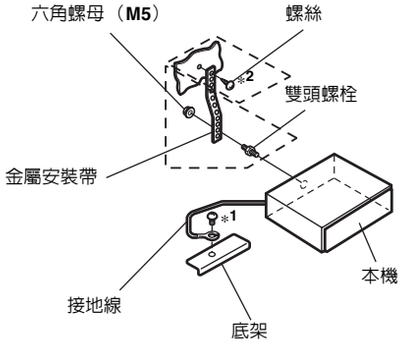
1



* *如果儀表板內安裝的安裝殼套鬆動，可以稍微彎曲施壓板加以固定。*

從主機拆卸安裝殼套 （請參閱第 **34** 頁的 “拆卸”）。

2



用金屬安裝帶（未附帶）加固主機。用已安裝到汽車底盤上的螺絲 （*1）將本機的接地線固定到清潔的金屬觸點上。

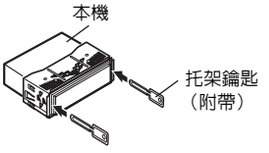
- *對於標有 “*2 ” 的螺絲，請在選定的安裝位置使用合適的螺絲。*

將放大器或均衡器的各輸入線連接至來自 **iDA-X303** 左後部的相應輸出線。根據連接一章中所述的詳細說明，連接 **iDA-X303** 的所有其他導線。

3 將 **iDA-X303** 滑入儀表板直到固定到位。這樣可確保正確鎖緊本機，使機器不會從儀表板意外脫出。安裝可拆卸式前面板。

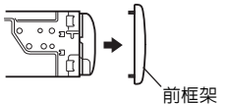
拆卸

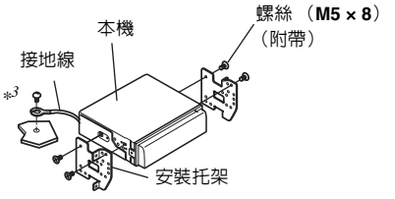
1. 拆下可拆卸式前面板。
2. 將托架鑰匙沿著兩邊的導向槽插入本機。 現在可將本機從安裝殼套中拆下。



3. 將本機向外拉出，拉出時使其保持在解鎖狀態。

< 日本車 >

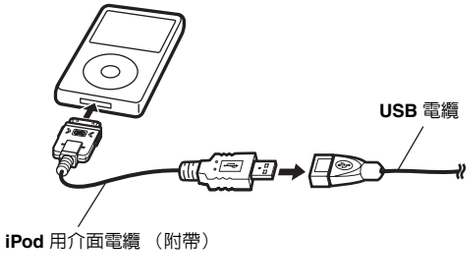




- *用已安裝到汽車底盤上的螺絲 （*3）將本機的接地線固定到清潔的金屬觸點上。*

iPhone/iPod 連接 （另售）

用 iPod 用介面電纜將 USB 電纜連接至 iPhone/iPod。



移除 **iPhone/iPod**

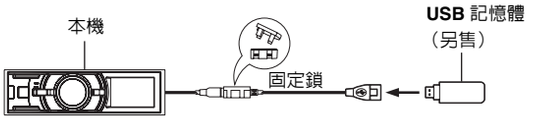
從 iPod 用介面電纜取下 iPhone/iPod。

- *當本機更換爲 USB IPOD 以外的訊號源後，取下 iPhone/iPod。如果在播放歌曲時取下 iPhone/iPod，可能會造成資料損壞。*
- *如果未輸出聲音，或是連接了 iPhone/iPod 但無法辨識 iPhone/iPod，取下 iPhone/iPod，然後重新連接，或是重啓 iPod。*
- *請勿將 iPhone/iPod 長時間遺留在車內。熱源和濕氣可能會損壞 iPhone/iPod 以使您無法再次播放。*

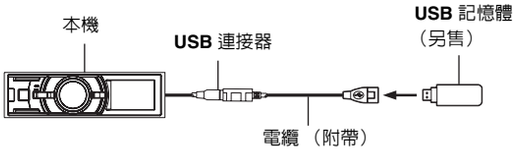
USB 記憶體連接 （另售）

連接 **USB** 記憶體

1. 將 USB 電纜連接到本機的 USB 連接器，然後用 USB 電纜附帶的固定鎖固定連接，如下所示。

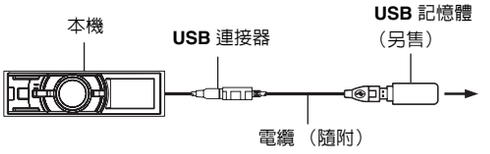


2. 將 USB 記憶體連接至 USB 電纜。



移除 **USB** 記憶體

從 USB 電纜上筆直拉出 USB 記憶體。



- *取下 USB 記憶體時，筆直向外拉出。*
- *如果未輸出聲音，或是連接了 USB 記憶體但無法辨識 USB 記憶體，取下 USB 記憶體，然後重新連接。*
- *改變成 USB 記憶體模式以外的訊號源，然後取下 USB 記憶體。如果在 USB 記憶體模式下取下 USB 記憶體，可能會造成資料損壞。*
- *將 USB 電纜遠離其他電纜舖設。*

隨身音樂播放器連接器 （另售）

連接隨身音樂播放器

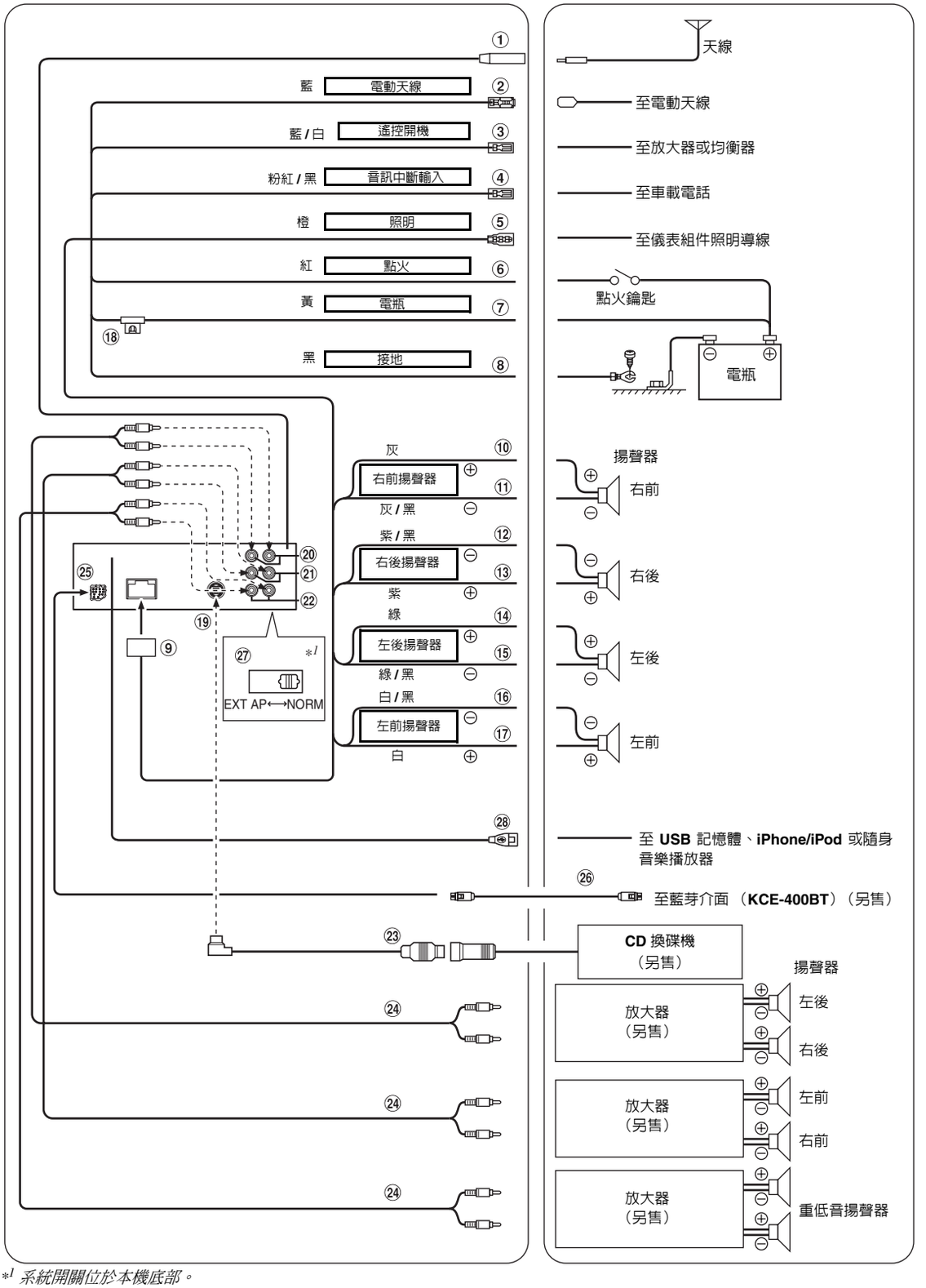
將隨身音樂播放器附帶的電纜與 USB 電纜連接。

中斷隨身音樂播放器的連接。

中斷隨身音樂播放器附帶的電纜與 USB 電纜的連接。

- *請同時參閱隨身音樂播放器的用戶手冊。*

連接



*1 *系統開關位於本機底部。*

① 天線插座

② 電動天線導線 （藍）
如果適用的話，將此導線連接至電動天線的 +B 端子。

- *此導線只可用於控制汽車的電動天線。 請勿用此導線打開放大器或訊號處理器等設備。*

③ 遙控開機導線 （藍 **/** 白）
將此導線連接至放大器或訊號處理器的遙控開機導線。

④ 音訊中斷輸入線 （粉紅 **/** 黑）

⑤ 照明導線 （橙）
此導線可連接至汽車的儀表組件照明導線。當開啓汽車的燈光時，這將讓 iDA-X303 的背光變暗。

⑥ 切換電源線 （點火）（紅）
僅當點火開關打開或在附件位置時，將此導線連接至汽車保險絲盒的開端或其他提供 （+） 12V 的未使用的電源。

⑦ 電瓶導線 （黃）
將此導線連接至汽車電瓶的正極 （+）端子。

⑧ 接地導線 （黑）
將此導線連接至汽車上的良好底盤接地上。務必連接至裸金屬，並使用提供的金屬螺絲牢牢固定。

⑨ 電源連接器

⑩ 右前 （**+**）揚聲器輸出導線 （灰）

⑪ 右前 （**–**）揚聲器輸出導線 （灰 **/** 黑）

⑫ 右後 （**–**）揚聲器輸出導線 （紫 **/** 黑）

⑬ 右後 （**+**）揚聲器輸出導線 （紫）

⑭ 左後 （**+**）揚聲器輸出導線 （綠）

⑮ 左後 （**–**）揚聲器輸出導線 （綠 **/** 黑）

⑯ 左前 （**–**）揚聲器輸出導線 （白 **/** 黑）

⑰ 左前 （**+**）揚聲器輸出導線 （白）

⑱ 保險絲座 （**10A**）

⑲ **Ai-NET** 連接器
將其連接至其他具有 Ai-NET 的裝置（CD 換碟機、均衡器等）的輸出或輸入連接器。

- *當連接了 DHA-S690 時，務必將 “設定連接的主機 （MODEL SETUP）” 設定爲 “CD CHG”。*
- *不建議將 iPod 介面轉接器 （KCA-420i）與本產品一起使用。*
- *您可以透過連接選購的 Ai-NET/RCA 介面電纜 （KCA-121B）輸入 TV/ 視訊聲音。*

⑳ 後輸出 **/** 輸入 **RCA** 連接器
可作爲後輸出或輸入 RCA 連接器。
紅色的在右邊，白色的在左邊。

㉑ 前輸出 **/** 輸入 **RCA** 連接器
可作爲前輸出或輸入 RCA 連接器。
紅色的在右邊，白色的在左邊。

㉒ 重低音揚聲器輸出 **RCA** 連接器
紅色的在右邊，白色的在左邊。

㉓ **Ai-NET** 電纜 （**CD** 換碟機附帶）

㉔ **RCA** 延長電纜 （另售）

㉕ 藍芽介面連接器
將其連接至選購的藍芽介面 （KCE-400BT）。若要使用免持手機，需要選購的藍芽介面 （KCE-400BT）連接。有關連接的詳細資訊，請參閱藍芽介面 （KCE-400BT）的用戶手冊。
您亦可使用擴展 AUX IN 的轉換電纜 （KCE-237B）（另售）而連接外接裝置 （例如隨身播放器）。

* *請參閱 “設定 AUX+ 模式”（第 21 頁）。*

AUX+ ON: 連接外接裝置時。
AUX+ OFF: 設定爲 OFF 時，無法選擇 AUX+ 音源。

㉖ **KCE-400BT** 連接電纜 （**KCE-400BT** 附帶）

㉗ 系統開關
使用 Ai-NET 連接處理器或分割器時，請將此開關放在 EXT AP 位置。沒有連接裝置時，請將開關置於 NORM 位置。
切換至NORM時，RCA連接器⑳與㉑可作爲輸出RCA連接器。
切換至 EXT AP 時，RCA 連接器 ⑳與㉑可作爲輸入 RCA 連接器。

- *在改變開關位置前，請務必將本機的電源關閉。*

㉘ **USB** 連接器
將其連接至 USB 記憶體、iPhone/iPod 或隨身音樂播放器。
若要使用 iPhone/iPod，則需要連接 iPod 用介面電纜。

- *使用附帶的 USB 電纜。如果使用非附帶的 USB 電纜，則無法保證正常的性能。*
- *將 USB 電纜遠離其他電纜舖設。*

為了防止外部噪音進入音訊系統。
- 本機的安裝以及導線的排布應在離開汽車線束至少 10 cm 的距離。
- 儘量使電瓶電源線遠離其他導線。
- 將接地線牢固連接至汽車底盤的裸金屬觸點 （如有必要，除去任何油漆、髒物或油脂）。
- 如果您要附加一個選購的噪音抑制器，連接時請儘量使其遠離本機。您的 Alpine 經銷商處備有各種類型的噪音抑制器，有關詳情請與其聯絡。
- 您的 Alpine 經銷商精通防止噪音的方法，詳情請聯絡您的經銷商。

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